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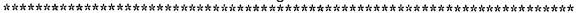
ABSTRACT

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This edition is the 25th report in a series that began in 1964. It revises the previous edition and includes statistics on elementary and secondary schools and institutions of higher education at the national level. Included are projections for enrollment, graduates, classroom teachers, and expenditures to the year 2006. Projections are also included for elementary and secondary enrollment and high school graduates to the year 2006 for public schools at the state level. Projections in this report reflect the 1990 Census and 1994 estimates and recent assumptions about the fertility rate, net immigration, and mortality rate. A methodology section describes models and assumptions used to develop the national projections, including age-specific models, exponential smoothing models, and econometric models. Most of the projections include three alternatives, based on different assumptions about growth. The first set of alternatives is designed to represent the most likely projections, but the high and low estimates provide a reasonable range of outcomes. Among the notable projections is that total public and private elementary enrollment is projected to increase over the period, with enrollment increases in elementary, secondary, and higher education. Four technical appendixes provide information about projection methodology, supplementary tables, data sources, and a glossary. (Contains 1 chart, 70 figures, 52 tables, 27 tables in Appendix A, and 12 tables in Appendix B.) (Author/SLD)

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William J. Hussar Debra E. Gerald National Center for Education Statistics

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Foreword

This edition of *Projections of Education Statistics to* 2006 is the 25th report in a series begun in 1964. This report provides revisions of projections shown in *Projections of Education Statistics to* 2005 and includes statistics on elementary and secondary schools and institutions of higher education at the national level. Included are projections for enrollment, graduates, classroom teachers, and expenditures to the year 2006.

In addition, this report includes projections of elementary and secondary enrollment and high school graduates to the year 2006 for public elementary and secondary schools at the state level. These projections were produced to provide researchers, policy analysts, and other customers with state-level projections developed with a consistent methodology. They are not intended to supplant detailed projections prepared in individual states.

The projections presented in this report reflect the 1990 census. The revised population projections developed by the Bureau of the Census reflect the incorporation of the 1994 estimates and latest assumptions for the fertility rate, net immigration, and mortality rate.

The report also contains a methodology section describing models and assumptions used to develop the national

projections. The projections are based on an age-specific enrollment rate model, exponential smoothing models, and econometric models. The enrollment model uses population estimates and projections from the Bureau of the Census. The exponential smoothing models are based on the mathematical projection of past data patterns into the future. The econometric models use projections of exogenous variables from DRI/McGraw-Hill, an economic forecasting service. Therefore, assumptions regarding the population and the economy are the key factors underlying the projections of education statistics.

Most of the projections include three alternatives, based on different assumptions about growth paths. Although the first alternative set of projections (middle alternative) in each table is deemed to represent the most likely projections, the low and high alternatives provide a reasonable range of outcomes.

In the forecast summary, key demographic and economic assumptions are presented in chart 1 and selected education statistics are shown in figure 1. A summary of the projections is available in a pocket-sized folder, *Pocket Projections* 2006.

Susan W. Ahmed, Acting Associate Commissioner for Statistical Standards and Methodology February 1996



Acknowledgments

Projections of Education Statistics to 2006 was produced by the National Center for Education Statistics in the Statistical Standards and Methodology Division under the general direction of Susan W. Ahmed, Acting Associate Commissioner. The report was prepared by Debra E. Gerald, Mathematical Statistician, and William J. Hussar, Financial Economist.

Debra E. Gerald prepared national projections of the following: elementary and secondary enrollment (chapter 1); higher education enrollment (chapter 2); high school graduates (chapter 3); earned degrees conferred (chapter 4); and classroom teachers (chapter 5). She also prepared state-level projections of public elementary and secondary enrollment (chapter 8) and public high school graduates (chapter 9). In addition, she prepared the appendixes explaining the methodologies used to develop these projections and the data sources. William J. Hussar prepared the projections of expenditures of public elementary and

secondary schools, including public school teacher salaries (chapter 6) and expenditures of institutions of higher education (chapter 7). Also, he developed the projections of age-specific enrollment rates for women enrolled in college. In addition, he prepared the appendixes explaining the methodologies used to obtain the expenditure projections, selected portions of the data sources, and glossary.

The technical review was done by Robert S. Burton of the National Center for Education Statistics. Valuable assistance was also provided by the following reviewers: Edward Hurley of the National Education Association; Gregory Spencer of the Bureau of the Census; Vance Grant of the National Library of Education; and William J. Fowler, Claire Geddes, and Thomas D. Snyder of the National Center for Education Statistics.

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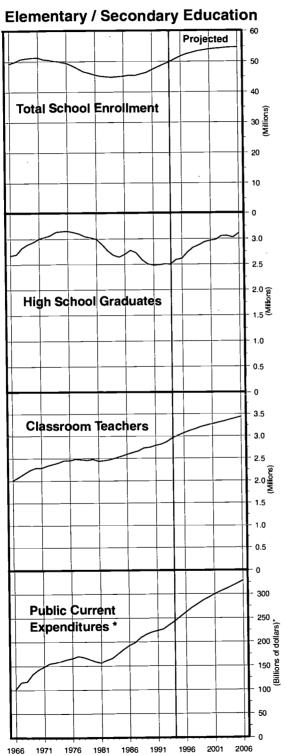
Forecast Summary



| Variable | Middle alternative | Low alternative | High alternative | | |
|---|---|--|---|--|--|
| Demographic Assumptions | | | | | |
| Population . | Projections are consistent with the Census Bureau middle series estimates, which assume a fertility rate of 2.09 births per woman by the year 2006, a net immigration of 820,000 per year, and a further reduction in the mortality rate. | Same as middle alternative | Same as middle alternative | | |
| 18-24 year-old population | Average annual decline of 1.3% to 1996; average annual growth rate of 1.5% through 2006. | Same as middle alternative | Same as middle alternative | | |
| 25-29 year-old population | Average annual decline of 0.3% | Same as middle alternative | Same as middle alternative | | |
| 30-34 year-old population | Average annual decline of 1.8% | Same as middle alternative | Same as middle alternative | | |
| 35-44 year-old population | Average annual growth rate of 0.0% | Same as middle alternative | Same as middle alternative | | |
| Public Elementary Enrollment | Average annual growth rate of 0.4% | Same as middle alternative | Same as middle alternative | | |
| Public Secondary Enrollment | Average annual growth rate of 1.5% | Same as middle alternative | Same as middle alternative | | |
| Undergraduate Enrollment | Average annual growth rate of 1.4% | Average annual growth rate of 0.4% | Average annual growth rate of 2.0% | | |
| Graduate Enrollment | Average annual growth rate of 0.6% | Average annual decline of 0.4% | Average annual growth rate of 1.5% | | |
| First-professional Enrollment | Average annual decline of 1.2% | Average annual decline of 0.5% | Average annual growth rate of 2.6% | | |
| Full-time-equivalent Enrollment | Average annual growth rate of 1.6% | Average annual growth rate of 0.5% | Average annual growth rate of 2.3% | | |
| Economic Assumptions | | | | | |
| Disposable Income per Capita in Constant Dollars | Annual percent changes range between 1.2% and 1.7% with an annual compound growth rate of 1.3%. | Annual percent changes range between 0.1% and 1.6% with an annual compound growth rate of 0.7%. | Annual percent changes range between 1.4% and 2.3% with an annual compound growth rate of 1.8%. | | |
| Education Revenue Receipts from State Sources per Capita in Constant Dollars | Annual percent changes range between 0.0% and 2.8% with an annual compound growth rate of 1.5%. | Annual percent changes range between 0.2% and 2.2% with an annual compound growth rate of 0.9%. | Annual percent changes range between 1.1% and 3.8% with an annual compound growth rate of 2.0%. | | |
| Inflation Rate | Inflation rate ranges between 3.0% and 4.1%. | Inflation rate ranges between 3.5% and 5.1%. | Inflation rate ranges between 2.5% and 4.1%. | | |
| Personal Taxes and Nontax Receipts to State and Local Governments per Capita in Constant Dollars | Annual percent changes range between 0.9% and 2.5% with an annual compound growth rate of 1.8%. | Annual percent changes range between 1.1% and 1.9% with an annual compound growth rate of 1.3%. | Annual percent changes range between 0.9% and 3.5% with an annual compound growth rate of 2.4%. | | |
| Indirect Business Taxes and Tax Accruals (Excluding Property Taxes) to State and Local Gov- ernments per Capita in Constant Dollars | Annual percent changes range between 0.8% and 2.4% with an annual compound growth rate of 1.3%. | Annual percent changes range between -0.4% and 1.8% with an annual compound growth rate of 0.6%. | Annual percent changes range between 1.0% and 3.7% with an annual compound growth rate of 1.9%. | | |
| Men | | | | | |
| Unemployment Rate (18 to 19) Unemployment Rate (20 to 24) Unemployment Rate (25&) | Remains between 16.7% and 17.8%. Remains between 9.2% and 10.1%. Remains between 4.4% and 5.2%. | Remains between 16.7% and 22.5%. Remains between 9.2% and 13.8%. Remains between 4.4% and 7.6% | Remains between 13.4% and 16.7% Remains between 7.0% and 9.3%. Remains between 3.3% and 4.5% | | |
| Women | | | | | |
| Unemployment Rate (18 to 19) Unemployment Rate (20 to 24) Unemployment Rate (25&) | Remains between 13.2% and 13.8%. Remains between 8.3% and 8.8%. Remains between 4.4% and 4.7%. | Remains between 13.7% and 16.7%. Remains between 8.8% and 10.7%. Remains between 4.6% and 6.1% | Remains between 11.2% and 13.8% Remains between 7.0% and 8.8%. Remains between 3.5% and 4.6% | | |

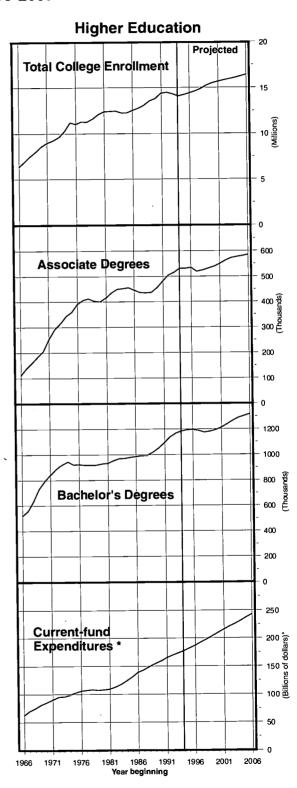


Figure 1
Past and projected trends in selected education statistics
1966-67 to 2006-2007



Year beginning

* Constant 1993-94 dollars



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Highlights

National

Enrollment

- Total public and private elementary and secondary enrollment is projected to increase over the projection period. Total public and private elementary and secondary enrollment is projected to increase from 49.8 million in 1994 to 51.7 million by 1996, surpassing the peak level of 51.3 million attained in 1971. Total enrollment is projected to increase further to 54.6 million by the year 2006, an increase of 10 percent from 1994 (table 1).
- Over the projection period, enrollment in grades K-8 and grades 9-12 will increase. Enrollment in grades K-8 is projected to increase from 36.2 million in 1994 to 38.1 million by the year 2006, an increase of 5 percent from 1994. Enrollment in grades 9-12 is projected to increase from 13.6 million in 1994 to 16.5 million by 2006, an increase of 21 percent from 1994 (table 1).
- Enrollment in institutions of higher education is projected to increase over the projection period. Higher education enrollment is projected to increase from an estimated 14.1 million in 1994 to 16.4 million by the year 2006, an increase of 16 percent. A 4-percent increase is projected under the low alternative and a 27-percent increase is projected under the high alternative (table 3).

High School Graduates

• The number of high school graduates is projected to increase over the projection period. High school graduates from public and private high schools are projected to increase from 2.5 million in 1993–94 to 3.0 million by 2005–2006, an increase of 21 percent (table 26).

Earned Degrees Conferred

• Over the projection period, the number of bachelor's degrees is projected to increase. Under the middle alternative, the number of bachelor's degrees is expected to increase from 1,182,000 in 1993–94 to 1,316,000 by 2005–2006, an increase of 11 percent. A 0.5-percent increase is projected under the low alternative and a 22-percent increase is projected under the high alternative (table 28).

• The number of doctor's degrees is projected to increase and then decrease over the projection period. Under the middle alternative, doctor's degrees are expected to increase from 41,900 in 1993–94 to 46,200 in 2000–2001. Then this number is projected to decrease to 43,200 by 2005–2006 (table 30).

Classroom Teachers

- The number of classroom teachers is projected to rise over the projection period. Under the middle alternative, the number of classroom teachers is expected to increase from 2.96 million in 1994 to 3.43 million by the year 2006, an increase of 16 percent. An 11-percent increase is projected under the low alternative and a 20-percent increase is projected under the high alternative (table 32).
- Both elementary and secondary teachers are projected to increase over the projection period. Under the middle alternative, the number of elementary teachers is projected to increase from 1.80 million in 1994 to 2.01 million by the year 2006, an increase of 12 percent. A 7-percent increase is projected under the low alternative and a 16-percent increase is projected under the high alternative. Under the middle alternative, secondary classroom teachers will increase from 1.17 million in 1994 to 1.42 million by the year 2006, an increase of 22 percent. A 17-percent increase is projected under the low alternative and a 26-percent increase is projected under the high alternative (table 32).

Expenditures

• Current expenditures for public elementary and secondary schools are forecast to continue increasing through 2005–2006. Current expenditures increased 43 percent in constant dollars, between 1980–81 and 1992–93. (1992–93 is the most recent year for which there are actual data.) With the increasing enrollments projected for this period, this trend of increasing current expenditures is expected to continue. Under the middle alternative, a 41-percent increase is projected for the period from 1992–93 to 2005–2006. Under the low alternative, current expenditures are projected to increase by 31 percent; under the high alternative, current expenditures are projected to increase by 52 percent (table 34).



10 xi

- Increases in current expenditures per pupil are also forecast to continue increasing for the period 1992-93 to 2005-2006. Current expenditures per pupil in average daily attendance (ADA) in constant dollars increased 36 percent from 1980-81 to 1992-93. Most of that increase occurred from 1980-81 to 1989-90, when current expenditures per pupil in constant dollars increased 35 percent. From 1989-90 to 1992-93, current expenditures per pupil increased only 0.4 percent. Under the middle alternative, current expenditures per pupil are forecast to increase more rapidly again, with a 24percent increase projected for the period from 1992-93 to 2005-2006. Under the low alternative, current expenditures per pupil are projected to increase 15 percent and under the high alternative, current expenditures per pupil are projected to increase 33 percent (table 34).
- Increases in teacher salaries are forecast. From 1980–81 to 1989–90, teacher salaries in constant dollars grew an estimated 21 percent. Reflecting a slowdown in the

- economy, teacher salaries are estimated to have fallen 1 percent in real terms from 1989–90 to 1994–95. As the current trend of increasing enrollments continues and as the economy begins to grow again, it is forecast that teacher salaries will also begin increasing. Teacher salaries are projected to increase 6 percent between 1994–95 and 2005–2006 under the middle alternative. A 3-percent increase is projected under the low alternative and a 10-percent increase is projected under the high alternative (table 36).
- Current-fund expenditures are projected to increase in both public and private institutions. Current-fund expenditures in institutions of higher education rose 57 percent in constant dollars from 1980–81 to 1992–93. (1992–93 is the most recent year for which there are available data.) During that time, current-fund expenditures rose 50 percent in public institutions and 69 percent in private institutions. A further 40-percent increase is projected for the period from 1992–93 to 2005–2006 under the middle alternative for all expenditures (table 37).

State-Level

Public Elementary and Secondary Enrollment

- Public elementary and secondary school enrollment (kindergarten through grade 12) is expected to increase between 1994 and the year 2006, but these increases will vary by region. Enrollment will increase most rapidly in the West, where total enrollment is expected to rise 21 percent. Enrollment in the South is projected to increase by 10 percent. The Northeast is expected to rise by 4 percent, while the Midwest is projected to increase by 3 percent (table 46).
- Changes in public school enrollment are projected to vary by state between 1994 and the year 2006. Public school enrollment is projected to increase 10 percent between 1994 and the year 2006. Sizable increases are expected in Alaska (19 percent), Delaware (28 percent), California (26 percent), and Washington (20 percent). Decreases are expected in District of Columbia (11 percent), Maine (6 percent), North Dakota (8 percent), and West Virginia (3 percent) (table 46).
- Changes in public school elementary enrollment are projected to vary by state. Public school elementary enrollment in kindergarten through grade 8 is expected to increase 5 percent between 1994 and the year 2006. Sizable increases in elementary enrollment are projected or Alabama (15 percent), California (20 percent), Dela-

- ware (28 percent), and Hawaii (18 percent). Decreases are projected for District of Columbia (22 percent), Maine (12 percent), New Hampshire (9 percent), and North Dakota (13 percent) (table 48).
- Changes in public high school enrollment are projected across the Nation. Public high school enrollment in grades 9 through 12 is projected to increase 22 percent between 1994 and 2006. Increases will occur in all states except West Virginia. Sizable increases are expected in California (44 percent), Nevada (41 percent), and Washington (35 percent) over the projection period. West Virginia is projected to decrease by 6 percent (table 50).

Public High School Graduates

- Growth in the number of graduates from public schools will vary by region. The number of public high school graduates is projected to increase 21 percent between 1993–94 and 2005–2006. Across region, the West is expected to rise by 33 percent. The Northeast is projected to grow by 21 percent. The South and Midwest are expected to increase by 18 percent and 13 percent, respectively, over the projection period (table 52).
- Increases in the number of public high graduates are projected for most states. Between 1993–94 and

2005-2006, sizable increases are expected in Arizona (61 percent), Hawaii (77 percent), Nevada (93 percent), and New Mexico (54 percent). Decreases are projected

for District of Columbia (10 percent), Louisiana (2 percent), Mississippi (2 percent), and West Virginia (13 percent) (table 52).



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Introduction

Guide to This Edition

This edition of Projections of Education Statistics to 2006 provides projections for key education statistics. This edition includes statistics on enrollment, graduates, classroom teachers, and expenditures in elementary and secondary schools and institutions of higher education. For the Nation, the tables, figures, and text contain data on enrollment, teachers, graduates, and expenditures for the past 14 years and projections to the year 2006. For the 50 States and the District of Columbia, the tables, figures, and text contain data on projections of public school elementary and secondary enrollment and public high school graduates to the year 2006. Similar methodologies were used to obtain a uniform set of projections for the 50 States and District of Columbia. These projections are further adjusted to agree with the national projections of public elementary and secondary school enrollment and public high school graduates appearing in this report. These projections reflect 1994 estimates and population projections based on the 1990 census. Appendix A describes the methodology and assumptions used to develop the

projections. Appendix B contains tables of supplementary data. Data sources are presented in appendix C. Appendix D is a glossary of terms.

Limitations of Projections

Projections of time series usually differ from the reported data due to errors from many sources. This is because of the inherent nature of the statistical universe from which the basic data are obtained and the properties of projection methodologies, which depend on the validity of many assumptions. Therefore, alternative projections are shown for most statistical series to denote the uncertainty involved in making projections. These alternatives are not statistical confidence limits, but instead represent judgments made by the authors as to reasonable upper and lower bounds. Alternative projections are presented for higher education enrollment, classroom teachers, earned degrees conferred, and expenditures of public elementary and secondary schools and institutions of higher education.



Chapter 1

Elementary and Secondary Enrollment

Between 1994 and the year 2006, enrollment will increase in elementary and secondary schools. The primary reason for the increase is the rising number of annual births since 1977—sometimes referred to as the baby boom echo (figure 2). As a result, increases in the 3- to 5-year-old population are projected through 1996 and increases in the school-age populations are expected over the next 12 years (figures 3, 4, and 5). In 1995 and beyond, increases in the 5- to 13-year-old population, which began in the mid-1980s, are expected to continue the increase in elementary enrollment through the year 2002. The increase in the 14- to 17-year-old population, which started in 1991, will influence the growth in secondary enrollment over the projection period.

Elementary and Secondary Enrollment

Reflecting the decline in the 5- to 17-year-old population, total enrollment in public and private elementary and secondary schools decreased from 45.5 million in 1981 to 44.9 million in 1984, a decrease of 1 percent (table 1 and figure 6). After reaching a low of 44.9 million in 1984, total enrollment reversed its downward trend in response to an increase in the 5- to 17-year-old population and rose to 49.8 million in 1994, an increase of 11 percent from 1984. Total enrollment is projected to continue to increase to 51.7 million in 1996, surpassing the peak level of 51.3 million attained in 1971. Total enrollment is projected to increase further to 54.6 million by the year 2006, an increase of 10 percent from 1994.

Enrollment, by Control of School

Enrollment in public elementary and secondary schools decreased from 40.0 million in 1981 to 39.2 million in 1984, a decrease of 2 percent (figure 7). Since then, enrollment in public schools has increased to an estimated 44.2 million in 1994, an increase of 13 percent from 1984. Enrollment in public schools is projected to increase to 48.5 million by the year 2006, an increase of 10 percent from 1994.

Since the mid-1970s, enrollment in private elementary and secondary schools has fluctuated between 5.0 million and 5.7 million. In 1994, an estimated 5.6 million students were enrolled in private elementary and secondary schools. Enrollment in private schools is projected to increase to around 6.1 million by the year 2006, an increase of 9 percent from 1994.

Projections of enrollments in public elementary and secondary schools are based on projected grade retention rates. The retention rates for grades 2 through 10 are all close to 100 percent. Rates for grade 6 to grade 7 and grade 8 to grade 9 are significantly over 100 percent. Traditionally, these are the grades in which large numbers of private elementary students transfer to public secondary schools. The retention rates for grades 11 to 12 are about 90 percent. The grade retention rates are assumed to be constant throughout the projection period.

Projections of private school enrollment were derived using public school enrollment data. From 1970 to 1993, the ratio of private school enrollment to public school enrollment was calculated for grades K-8 and grades 9-12. These ratios were projected using single exponential smoothing, yielding a constant value over the projection period. This constant was applied to projections of public school enrollment for grades K-8 and 9-12 to yield projections of private school enrollment. This method assumes that the future pattern in the trend of private school enrollment will be the same as that in public school enrollment. However, a number of factors could alter the assumption of a constant ratio over the projection period.

Enrollment, by Grade Group

Between 1981 and 1984, enrollment in grades K-8 fell from 31.4 million to 31.2 million, a decrease of 0.6 percent. Then, this number increased to 36.2 million in 1994, an increase of 16 percent from 1984. Enrollment in grades K-8 is projected to increase to 38.8 million in 2002. Then, this number is expected to decline to 38.1 million by the year 2006, an increase of 5 percent from 1994. Enrollment in grades 9-12 decreased from 14.2 million in 1981 to 12.5 million in 1990, a decrease of 12 percent. It then increased to 13.6 million in 1994. By the year 2006, enrollment in grades 9-12 is projected to continue to rise to 16.5 million, an increase of 21 percent from 1994. Since enrollment rates for the school-age populations are nearly 100 percent for elementary grades and juniorhigh grades and close to 90 percent for high school grades, the historical and projected patterns of decline and growth in enrollment in grades K-8 and grades 9-12 reflect changes in the sizes of the 5- to 13-year-old population and the 14- to 17-year-old population.



Enrollment, by Grade Group and Control of School

Enrollment by grade group in public elementary and secondary schools shows trends similar to those of total enrollment. Enrollment in grades K-8 of public schools decreased from 27.3 million in 1981 to 26.9 million in 1984, a decrease of 1 percent. It then increased to 31.9 million in 1994. Enrollment in grades K-8 of public schools is projected to increase to 34.1 million in 2002. Then, it is expected to decrease to 33.5 million by the year 2006, an increase of 5 percent from 1994. Enrollment in grades 9-12 of public schools decreased from 12.8 million in 1981 to 11.3 million in 1990, a decrease of 11 percent. Then, it increased to 12.4 million in 1994. Thereafter, 9-12 enrollment is expected to increase to 15.0 million by the year 2006, an increase of 21 percent from 1994.

Enrollment by grade group in private elementary and secondary schools will show patterns similar to trends in enrollment in public schools over the projection period by virtue of the private school enrollment projection methodology. The methodology assumes that private school enrollment will reflect trends in public school enrollment. Enrollment in grades K–8 of private schools is projected to increase from an estimated 4.4 million in 1994 to 4.6

million by the year 2006, an increase of 5 percent. Enrollment in grades 9–12 of private schools is projected to increase from an estimated 1.2 million in 1994 to 1.5 million by the year 2006, an increase of 21 percent.

Enrollment, by Organizational Level

Enrollments may also be aggregated by the level of school attended by students. The reported enrollment in elementary schools is smaller than enrollment in kindergarten through grade 8 because it excludes enrollment in grades 7 and 8 in secondary schools. Enrollment in elementary schools decreased from 28.1 million in 1981 to 28.0 million in 1983 (table 2). This number increased by 18 percent to 33.1 million in 1994. Enrollment in elementary schools is expected to continue to increase to 35.3 million in the year 2001, before declining to 34.6 million by the year 2006, an increase of 5 percent from 1994. Enrollment in secondary schools, including 7th and 8th graders in secondary schools, decreased from 17.4 million in 1981 to 15.3 million in 1990, a decrease of 12 percent. Then, this number increased by 9 percent to 16.7 million in 1994. Enrollment in secondary schools is projected to rise to 20.0 million by the year 2006, an increase of 20 percent from 1994.



Figure 2
Annual number of births, with projections: 1946 to 2006

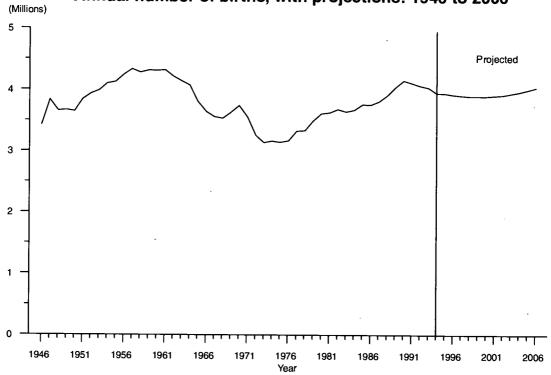


Figure 3
3- to 5-year-old population, with projections: 1981 to 2006

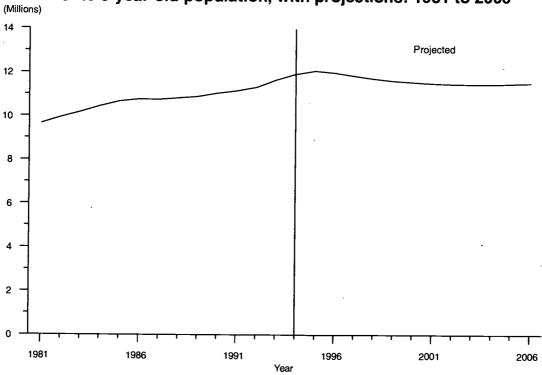




Figure 4
5- to 17-year-old population, with projections: 1981 to 2006

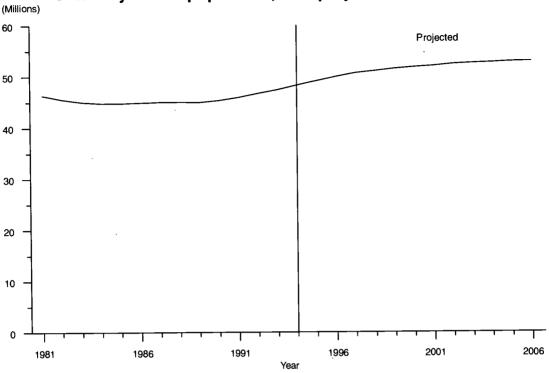


Figure 5
School-age populations, with projections: 1981 to 2006

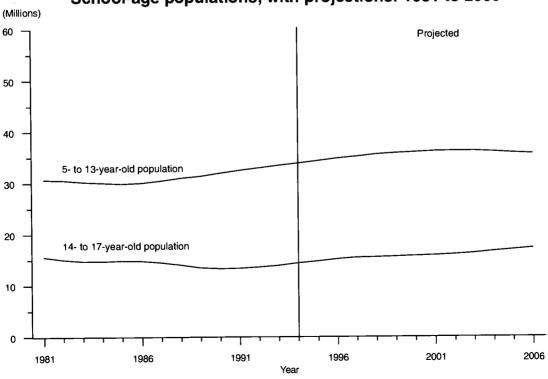




Figure 6
Enrollment in elementary and secondary schools, by grade level, with projections: Fall 1981 to fall 2006

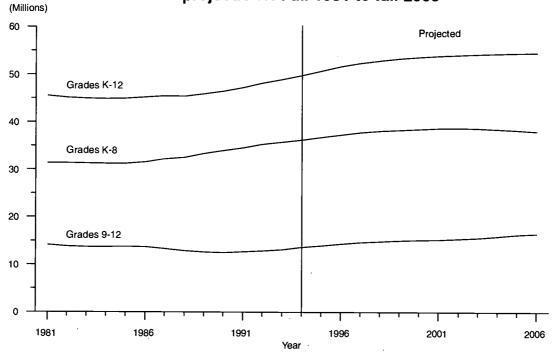


Figure 7
Enrollment in elementary and secondary schools, by control of institution, with projections: Fall 1981 to fall 2006

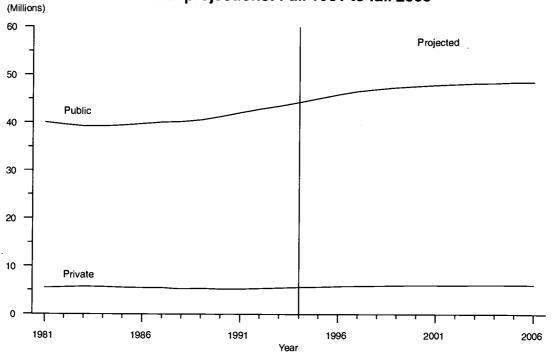




Table 1.—Enrollment in grades K-8¹ and 9-12 of elementary and secondary schools, by control of institution, with projections: 50 States and D.C., fall 1981 to fall 2006

(In thousands)

| | | Total | | Public | | | | Private | |
|-------|--------|--------|--------|-------------------|-----------|--------|--------------------|---------|-------|
| Year | K-12 1 | K-8 1 | 9–12 | K-12 ¹ | K-8 1 | 9–12 | K-12 ¹ | K-8 1 | 9–12 |
| 1981 | 45,544 | 31,380 | 14,164 | 40,044 | 27,280 | 12,764 | 25,500 | 4,100 | 1,400 |
| 1982 | 45,166 | 31,361 | 13,805 | 39,566 | 27,161 | 12,405 | ² 5,600 | 4,200 | 1,400 |
| 1983 | 44,967 | 31,296 | 13,671 | 39,252 | 26,981 | 12,271 | 5,715 | 4,315 | 1,400 |
| 1984 | 44,908 | 31,205 | 13,704 | 39,208 | 26,905 | 12,304 | 25,700 | 4,300 | 1,400 |
| 1985 | 44,979 | 31,229 | 13,750 | 39,422 | 27,034 | 12,388 | 5,557 | 4,195 | 1,362 |
| 1986 | 45,205 | 31,536 | 13,669 | 39,753 | 27,420 | 12,333 | ² 5,452 | 4,116 | 1,336 |
| 1987 | 45,488 | 32,165 | 13,323 | 40,008 | 27,933 | 12,076 | ³ 5,479 | 4,232 | 1,247 |
| 1988 | 45,430 | 32,537 | 12,893 | 40,189 | 28,501 | 11,687 | ³ 5,241 | 4,036 | 1,206 |
| 1989 | 45,898 | 33,314 | 12,583 | 40,543 | 29,152 | 11,390 | ³ 5,355 | 4,162 | 1,193 |
| 1990 | 46,448 | 33,973 | 12,475 | 41,217 | 29,878 | 11,338 | 35,232 | 4,095 | 1,137 |
| 1991 | 47,246 | 34,580 | 12,666 | 42,047 | 30,506 | 11,541 | ³ 5,199 | 4,074 | 1,125 |
| 1992 | 48,191 | 35,293 | 12,898 | 42,816 | 31,081 | 11,735 | ³ 5,375 | 4,212 | 1,163 |
| 1993 | 48,947 | 35,796 | 13,152 | 43,476 | 31,516 | 11,961 | 45,471 | 4,280 | 1,191 |
| 19944 | 49,826 | 36,225 | 13,602 | 44,230 | 31,864 | 12,366 | 5,596 | 4,360 | 1,236 |
| | • | , | | | Projected | | | | |
| 1995 | 50,776 | 36,814 | 13,962 | 45,076 | 32,383 | 12,693 | 5,700 | 4,431 | 1,269 |
| 1996 | 51,683 | 37,330 | 14,353 | 45,885 | 32,837 | 13,049 | 5,798 | 4,493 | 1,304 |
| 1997 | 52,400 | 37,772 | 14,628 | 46,524 | 33,226 | 13,299 | 5,876 | 4,547 | 1,329 |
| 1998 | 52,921 | 38,109 | 14,811 | 46,988 | 33,522 | 13,466 | 5,933 | 4,587 | 1,346 |
| 1999 | 53,342 | 38,303 | 15,039 | 47,365 | 33,692 | 13,673 | 5,977 | 4,610 | 1,367 |
| 2000 | 53,668 | 38,484 | 15,184 | 47,656 | 33,852 | 13,804 | 6,012 | 4,632 | 1,380 |
| 2001 | 53,933 | 38,686 | 15,248 | 47,891 | 34,029 | 13,862 | 6,042 | 4,656 | 1,386 |
| 2002 | 54,168 | 38,764 | 15,404 | 48,102 | 34,098 | 14,004 | 6,066 | 4,666 | 1,400 |
| 2003 | 54,312 | 38,726 | 15,586 | 48,234 | 34,065 | 14,169 | 6,078 | 4,661 | 1,416 |
| 2004 | 54,449 | 38,519 | 15,930 | 48,365 | 33,882 | 14,483 | 6,084 | 4,636 | 1,448 |
| 2005 | 54,587 | 38,289 | 16,299 | 48,497 | 33,680 | 14,818 | 6,090 | 4,609 | 1,481 |
| 2006 | 54,615 | 38,092 | 16,523 | 48,528 | 33,507 | 15,021 | 6,086 | 4,585 | 1,501 |

¹ Includes most kindergarten and some nursery school enrollment.

NOTE: Some data have been revised from previously published figures. Projections are based on data through 1993. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; "Private Elementary and Secondary Education, 1983: Enrollment, Teachers, and Schools," NCES Bulletin, December 1984; 1985 Private School Survey; "Key Statistics for Private Elementary and Secondary Education: School Year 1988–89," Early Estimates; "Key Statistics for Private Elementary and Secondary Education: School Year 1990–91," Early Estimates; Public and Private Elementary and Secondary Education Statistics: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1992–93," Early Estimates. (This table was prepared September 1995.)



² Estimated on the basis of past data.

³ Estimate.

⁴ Projected.

Table 2.—Enrollment in elementary and secondary schools, by organizational level and control of institution, with projections: 50 States and D.C., fall 1981 to fall 2006

(In thousands)

| Year | | Total | | | Public | | | Private | | |
|-------|--------|------------|-----------|-------------------|------------|------------------|--------------------|----------------|-----------|--|
| | K-12 1 | Elementary | Secondary | K-12 ¹ | Elementary | Secondary | K-12 ¹ | Elementary | Secondary | |
| 1981 | 45,544 | 28,137 | 17,407 | 40,044 | 24,037 | 16,007 | 25,500 | 4,100 | 1,400 | |
| 1982 | 45,166 | 28,016 | 17,149 | 39,566 | 23,816 | 15,749 | ² 5,600 | 4,200 | 1,400 | |
| 1983 | 44,967 | 27,950 | 17,017 | 39,252 | 23,635 | 15,617 | 5,715 | 4,315 | 1,400 | |
| 1984 | 44,908 | 28,042 | 16,866 | 39,208 | 23,742 | 15,466 | ² 5,700 | 4,300 | 1,400 | |
| 1985 | 44,979 | 28,330 | 16,649 | 39,422 | 24,135 | 15,287 | 5,557 | 4,195 | 1,362 | |
| 1986 | 45,205 | 28,613 | 16,592 | 39,753 | 24,497 | 15,256 | ² 5,452 | 4,116 | 1,336 | |
| 1987 | 45,488 | 29,447 | 16,040 | 40,008 | 25,215 | 14,793 | ³ 5,479 | 4,232 | 1,330 | |
| 1988 | 45,430 | 29,776 | 15.654 | 40,189 | 25,740 | 14,448 | ³ 5,241 | 4,036 | 1,247 | |
| 1989 | 45,898 | 30,570 | 15,328 | 40,543 | 26,408 | 14,135 | ³ 5,355 | 4,162 | 1,193 | |
| 1990 | 46,448 | 31,145 | 15,304 | 41,217 | 27,050 | 14,167 | ³ 5,232 | 4,095 | 1,193 | |
| 1991 | 47,246 | 31,669 | 15,577 | 42,047 | 27,595 | 14,452 | ³ 5,199 | 4,074 | 1,137 | |
| 1992 | 48,191 | 32,312 | 15,879 | 42,816 | 28,100 | 14,716 | ³ 5,375 | 4,212 | 1,123 | |
| 1993 | 48,947 | 32,813 | 16,134 | 43,476 | 28,533 | 14,943 | 45,471 | 4,212 | 1,103 | |
| 19944 | 49,826 | 33,116 | 16,710 | 44,230 | 28,756 | 15,474 | 5,596 | 4,360 | • | |
| | | , | -, | , | Projected | 13,474 | 3,390 | 4,300 | 1,236 | |
| 1995 | 50,776 | 33,659 | 17,117 | 45,076 | 29,228 | 15,848 | 5,700 | 4,431 | 1 260 | |
| 1996 | 51,683 | 34,150 | 17,533 | 45,885 | 29,657 | 16,229 | 5,798 | 4,493 | 1,269 | |
| 1997 | 52,400 | 34,542 | 17,859 | 46,524 | 29,995 | 16,529 | 5,796 | 4,547 | 1,304 | |
| 1998 | 52,921 | 34,842 | 18,079 | 46,988 | 30,255 | 16,733 | 5,933 | 4,547 | 1,329 | |
| 1999 | 53,342 | 35,053 | 18,289 | 47,365 | 30,442 | 16,923 | 5,933 | • | 1,346 | |
| 2000 | 53,668 | 35,206 | 18,463 | 47,656 | 30,573 | 17,083 | 6,012 | 4,610 4,632 | 1,367 | |
| 2001 | 53,933 | 35,321 | 18,612 | 47,891 | 30,665 | 17,083 | 6,042 | • | 1,380 | |
| 2002 | 54,168 | 35,292 | 18,877 | 48,102 | 30,626 | 17,477 | 6,066 | 4,656 | 1,386 | |
| 2003 | 54,312 | 35,179 | 19,133 | 48,234 | 30,518 | 17,477 | 6,078 | 4,666 | 1,400 | |
| 2004 | 54,449 | 34,974 | 19,475 | 48,365 | 30,338 | 18,027 | , | 4,661 | 1,416 | |
| 2005 | 54.587 | 34,786 | 19,801 | 48,497 | 30,178 | • | 6,084 | 4,636 | 1,448 | |
| 2006 | 54,615 | 34,641 | 19,974 | 48,528 | 30,055 | 18,320 18,473 | 6,090 | 4,609 | 1,481 | |
| | | | .,,,,,,, | | | 10,473 | 6,086 | 4,585 | 1,501 | |

¹ Includes most kindergarten and some nursery school enrollment.

NOTE: Some data have been revised from previously published figures. Projections are based on data through 1993. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; "Private Elementary and Secondary Education, 1983: Enrollment, Teachers, and Schools," NCES Bulletin, December 1984; 1985 Private School Survey; "Key Statistics for Private Elementary and Secondary Education: School Year 1988–89," Early Estimates; "Key Statistics for Private Elementary and Secondary Education: School Year 1990–91," Early Estimates; Public and Private Elementary and Secondary Education Statistics: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1992–93," Early Estimates. (This table was prepared September 1995.)

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² Estimated on the basis of past data.

³ Estimate.

⁴ Projected.

Chapter 2

Higher Education Enrollment

Enrollment in institutions of higher education * is expected to rise between 1994 and the year 2006. The growth is due in part to the rising enrollment rates of most age cohorts. Changes in college-age populations will also affect enrollment levels over the next 12 years (figures 8 and 9). Over the projection period, the 25- to 29-yearold population is projected to decrease by 3 percent, and the 30- to 34-year-old population will decline by 20 percent. However, after a decrease of 3 percent from 1994 to 1996, the 18- to 24-year-old population will begin to increase in 1997 and increase by 16 percent by the end of the projection period. The 35- to 44-year-old population will increase by 7 percent between 1994 and 1999, and then decrease by 7 percent between 1999 and 2006. The increases in the youngest and oldest populations are expected to offset the loss of students from the 25- to 29-year-old and 30- to 34-year-old populations, thereby contributing to the increases in college enrollment levels in 1995 and beyond.

Higher education enrollment projections were based on projected enrollment rates, by age and sex, which were then applied to population projections by age and sex developed by the Bureau of the Census. The middle series population projections, which assume middle fertility and net immigration, were used. The age-specific enrollment rates were projected using econometric models by taking into account the effects of demographic changes and economic conditions on the enrollment rates of men and women.

Three alternative projections of enrollment in institutions of higher education were developed to indicate the range of possible outcomes. The middle alternative assumes that the enrollment rates of men and women by age and attendance status will primarily increase over the projection period. The full-time and part-time enrollment rates of men were projected as a function of dummy variables by age group, log of four-period weighted average of real disposable income per capita, and log unemployment rate by age group. The enrollment rates of women were projected as a function of disposable income per capita, population by age, and unemployment rate by age group. The low alternative assumes that the enrollment rates by age and attendance status will remain at their most recent levels. Under the high alternative, the enrollment rates by age and attendance status were projected to equal the

*This term applies mainly to those institutions that provide study beyond secondary school and that offer programs terminating in an associate, baccalaureate, or higher degree. middle alternative or increase at a faster rate for most age groups.

Total Higher Education Enrollment

In 1981, there were 12.4 million students enrolled in institutions of higher education. In the late 1970s and early 1980s, older students, primarily women and parttime students, began to enroll in greater numbers. As a result, college enrollment increased to 12.5 million in 1983. In 1984 and 1985, enrollment declined to 12.2 million. Then, it increased to 14.5 million in 1992. By 1994, it had decreased to an estimated 14.1 million (table 3 and figure 10). Under the middle alternative, college enrollment is projected to rise to 16.4 million by the year 2006, an increase of 16 percent from 1994. This will represent an average annual growth rate of 1.3 percent over the projection period. Between 1994 and 2000, college enrollment is projected to increase at an average annual growth rate of 1.6 percent. Between 2000 and 2006, it will grow at an average annual growth rate of 0.9 percent (figure 11). Although the 18- to 24-year-old population is projected to decline until 1996, a decrease of 3 percent from 1994, this population will increase 16 percent by the year 2006. This increase in the younger population, along with enrollment rates remaining above 1994 levels, is expected to offset somewhat the decline in the number of 25- to 34year-olds enrolled in college.

Under the low alternative, college enrollment is projected to increase from an estimated 14.1 million in 1994 to 14.6 million by the year 2006. This will represent an average annual growth rate of 0.3 percent, for an increase of 4 percent over the projection period. This alternative assumes that the enrollment rates will remain at their most recent levels.

Under the high alternative, college enrollment is expected to increase from an estimated 14.1 million in 1994 to 17.8 million by the year 2006. This will represent an average annual growth rate of 2.0 percent, for an increase of 27 percent over the projection period. This level is expected to be maintained during 1995 and beyond if the enrollment rates remain well above their 1994 levels.

For key enrollment statistics, the following tabulations show: (1) the average annual rate of growth (in percent) for 1981–94 and alternative projected rates of change for 1994–2006 and (2) rates of change for 1981–88 and 1988–94 and the middle alternative projected rates of change for 1994–2000 and 2000–2006.



Average annual rate of change (in percent)

| | 1981–94 | 1994–2006 | | |
|---|---------|-----------|--------|------|
| | | Low | Middle | High |
| Total | 1.0 | 0.3 | 1.3 | 2.0 |
| MenWomen | 0.4 | 0.3 | 1.3 | 2.0 |
| | 1.5 | 0.4 | 1.3 | 2.0 |
| Full-timePart-time | 0.8 | 0.7 | 1.9 | 2.7 |
| | 1.3 | -0.1 | 0.4 | 1.0 |
| PublicPrivate | 1.0 | 0.3 | 1.2 | 1.9 |
| | 0.9 | 0.3 | 1.4 | 2.1 |
| 4-year2-year | 1.0 | 0.4 | 1.4 | 2.1 |
| | 1.1 | 0.2 | 1.1 | 1.8 |
| UndergraduateGraduateFirst-professional | 0.9 | 0.4 | 1.4 | 2.0 |
| | 1.9 | -0.4 | 0.6 | 1.5 |
| | 0.7 | -0.5 | 1.2 | 2.6 |
| Full-time-equivalent | 0.9 | 0.5 | 1.6 | 2.3 |

Average annual rate of change (in percent)

(Middle alternative projections)

| | | | Projected | | |
|----------------------|---------|---------|-----------|-----------|--|
| | 1981–88 | 1988-94 | 1994–2000 | 2000–2006 | |
| Total | 0.8 | 1.3 | 1.6 | 0.9 | |
| Men | 0.1 | 0.9 | 1.7 | 0.9 | |
| Women | 1.4 | 1.6 | 1.6 | 1.0 | |
| Full-time | 0.5 | 1.2 | 2.4 | 1.4 | |
| | 1.1 | 1.4 | 0.6 | 0.3 | |
| Public | 0.7 | 1.3 | 1.6 | 0.9 | |
| Private | 0.9 | 1.0 | 1.7 | 1.0 | |
| 4-year2-year | 1.0 | 1.0 | 1.7 | 1.1 | |
| | 0.5 | 1.8 | 1.4 | 0.7 | |
| Undergraduate | 0.7 | 1.1 | 1.7 | 1.0 | |
| Graduate | 1.3 | 2.7 | 1.0 | 0.2 | |
| First-professional | -0.4 | 2.0 | 1.8 | 0.7 | |
| Full-time-equivalent | 0.7 | 1.2 | 2.0 | 1.2 | |

Enrollment, by Sex of Student

Women played a major role in the increase of enrollment between 1981 and 1994. The enrollment of women in college increased from 6.4 million in 1981 to an estimated 7.8 million in 1994, representing an average annual growth rate of 1.5 percent, for a 21-percent increase over the period (figure 12). Under the middle alternative, enrollment of women is expected to increase to 9.0 million by the year 2006, an increase of 16 percent from 1994. This will represent a growth rate of 1.3 percent per year, less than the growth rate of 1.5 percent for the 1981-94 period. The rate of growth will be higher during the first half of the projection period (1994-2000) than during the second half (2000-2006), 1.6 percent per year versus 1.0 percent per year (figure 13). As a share of total college enrollment, women were 55 percent of all college students in 1994 compared with 52 percent in 1981. Women are expected to maintain their share of 55 percent of college enrollment in the year 2006. Under the low alternative, enrollment of women is expected to increase from 7.8 million in ^94 to 8.1 million by the year 2006, representing a growth rate of 0.4 percent per year. Under the high alternative, enrollment of women is expected to increase from 7.8 million in 1994 to 9.8 million by the year 2006, representing a growth rate of 2.0 percent per year.

Despite fluctuations in enrollment to 1985, the enrollment of men in college has since increased from 5.9 million in 1986 to an estimated 6.3 million in 1994. Over the 1981-94 period, the growth rate of 0.4 percent per year for men was slightly less than one-fourth of the rate for women. Under the middle alternative, enrollment of men is expected to increase to 7.4 million by the year 2006, a 17-percent increase from 1994, for an average annual growth rate of 1.3 percent. The growth rate of enrollment of men will be higher in the first half of the projection period than in the second half, 1.7 percent per year versus 0.9 percent per year. Under the low alternative, enrollment of men is expected to increase from 6.3 million in 1994 to 6.5 million by the year 2006, representing a growth rate of 0.3 percent per year. Under the high alternative, enrollment of men is expected to increase from 6.3 million in 1994 to 8.0 million by the year 2006, representing a growth rate of 2.0 percent per year.

Enrollment, by Attendance Status

Full-time enrollment increased from 7.2 million in 1981 to an estimated 8.0 million in 1994 (figure 14). This is an average annual growth rate of 0.8 percent, for an increase of 11 percent over the period. Under the middle alternative, full-time enrollment is expected to increase another 25 percent to 9.9 million by the year 2006, representing an average annual growth rate of 1.9 percent. Over the projection period, the growth rate for the 1994-2000 period will be higher than the growth rate for the 2000-2006 period, 2.4 percent per year versus 1.4 percent per year (figure 15). Under the low alternative, full-time enrollment is expected to increase from 8.0 million in 1994 to 8.6 million by the year 2006, representing a growth rate of 0.7 percent per year. Under the high alternative, full-time enrollment is expected to increase from 8.0 million in 1994 to 10.9 million by the year 2006, representing a growth rate of 2.7 percent per year.

Part-time enrollment increased from 5.2 million in 1981 to an estimated 6.1 million in 1994. This is an average annual growth rate of 1.3 percent, for an increase of 18 percent over the period. Under the middle alternative, part-time enrollment is expected to increase at an average annual growth rate of 0.4 percent and reach 6.4 million by the year 2006, for an increase of 5 percent over the projection period. The growth rate for part-time enrollment during the 1994–2000 period will be more than the growth rate for the 2000–2006 period, 0.6 percent versus 0.3 percent. Under the low alternative, part-time enrollment is expected to decrease from 6.1 million in 1994 to 6.0 million by the year 2006, representing a rate of decline of 0.1 percent per year. Under the high alternative, part-time enrollment is expected to increase from 6.1 million in 1994 to 6.9

million by the year 2006, representing a growth rate of 1.0 percent per year.

Enrollment, by Control of Institution

Enrollment in public institutions grew from 9.6 million in 1981 to an estimated 11.0 million in 1994, increasing at an average annual rate of 1.0 percent, for an increase of 14 percent over the period (figure 16). Under the middle alternative, public enrollment is expected to increase to 12.8 million by 2006, rising by an average annual growth rate of 1.2 percent, for an increase of 16 percent over the projection period. During the projection period, enrollment in public institutions is projected to increase at an average annual growth rate of 1.6 percent during the 1994-2000 period and 0.9 percent during the 2000-2006 period (figure 17). Enrollment in public 4-year institutions is projected to increase from an estimated 5.8 million in 1994 to 6.9 million by the year 2006. Enrollment in public 2-year institutions is expected to increase from an estimated 5.2 million in 1994 to 5.9 million by the year 2006.

Under the low alternative, public enrollment is expected to increase from 11.0 million in 1994 to 11.4 million by the year 2006, representing a growth rate of 0.3 percent per year. Under the high alternative, public enrollment is expected to increase from 11.0 million in 1994 to 13.9 million by the year 2006, representing a growth rate of 1.9 percent per year.

Enrollment in private institutions increased from 2.7 million in 1981 to an estimated 3.1 million in 1994, increasing at an average annual growth rate of 0.9 percent, for an increase of 13 percent over the period. Under the middle alternative, private enrollment is expected to increase to 3.6 million by 2006, rising by an average annual growth rate of 1.4 percent, for an increase of 18 percent over the projection period. During the projection period, enrollment in private institutions is projected to increase at an annual growth rate of 1.7 percent during the 1994-2000 period and 1.0 percent during the 2000-2006 period. Enrollment in private 4-year institutions is expected to increase from an estimated 2.8 million in 1994 to 3.3 million by the year 2006. Enrollment in private 2-year institutions is projected to increase from an estimated 238,000 in 1994 to 285,000 by the year 2006.

Under the low alternative, private enrollment is expected to increase from 3.1 million in 1994 to 3.2 million by the year 2006, representing a growth rate of 0.3 percent per year. Under the high alternative, private enrollment is expected to increase from 3.1 million in 1994 to 4.0 million by the year 2006, representing a growth rate of 2.1 percent per year.

Enrollment, by Type of Institution

Enrollment in 4-year institutions increased from 7.7 million in 1981 to an estimated 8.7 million in 1994, increasing n average annual growth rate of 1.0 percent, for a

13-percent increase over the period (table 4 and figure 18). Under the middle alternative, enrollment in 4-year institutions is expected to rise to 10.2 million by the year 2006, increasing at an average annual growth rate of 1.4 percent, for an 18-percent increase over the projection period. During the projection period, enrollment in 4-year institutions is projected to increase at an annual growth rate of 1.7 percent during the 1994–2000 period and 1.1 percent during the 2000–2006 period (figure 19).

Under the low alternative, enrollment in 4-year institutions is expected to increase from 8.7 million in 1994 to 9.1 million by the year 2006, representing a growth rate of 0.4 percent per year. Under the high alternative, enrollment in 4-year institutions is expected to increase from 8.7 million in 1994 to 11.1 million by the year 2006, representing a growth rate of 2.1 percent per year.

Enrollment in 2-year institutions rose from 4.7 million in 1981 to an estimated 5.4 million in 1994, increasing at an average annual growth rate of 1.1 percent per year, for a 15-percent increase over the period (table 5). Under the middle alternative, enrollment in 2-year institutions is expected to rise to 6.2 million by the year 2006, increasing at an average annual growth rate of 1.1 percent, for a 14-percent increase over the projection period. During the projection period, enrollment in 2-year institutions is projected to increase at an annual growth rate of 1.4 percent during the 1994–2000 period and 0.7 percent during the 2000–2006 period.

Under the low alternative, enrollment in 2-year institutions is expected to increase from 5.4 million in 1994 to 5.6 million by the year 2006, representing a growth rate of 0.2 percent per year. Under the high alternative, enrollment in 2-year institutions is expected to increase from 5.4 million in 1994 to 6.7 million by the year 2006, representing a growth rate of 1.8 percent per year.

Enrollment, by Level

Undergraduate enrollment increased from 10.8 million in 1981 to an estimated 12.1 million in 1994, increasing at an average annual growth rate of 0.9 percent, for a 12-percent increase over the period (table 14 and figure 20). Under the middle alternative, undergraduate enrollment is expected to increase to 14.2 million by the year 2006, at a growth rate of 1.4 percent per year, for an 18-percent increase over the projection period. During the projection period, undergraduate enrollment is projected to increase at an annual growth rate of 1.7 percent during the 1994–2000 period and 1.0 percent during the 2000–2006 period (figure 21).

Under the low alternative, undergraduate enrollment is expected to increase from 12.1 million in 1994 to 12.7 million by the year 2006, representing a growth rate of 0.4 percent per year. Under the high alternative, undergraduate enrollment is expected to increase from 12.1 million in 1994 to 15.4 million by the year 2006, representing a growth rate of 2.0 percent per year.

Graduate enrollment rose from 1.3 million in 1981 to an estimated 1.7 million in 1994, at an average annual growth rate of 1.9 percent, for a 28-percent increase over the period (table 17 and figure 22). Under the middle alternative, graduate enrollment is expected to increase to 1.9 million by the year 2006, increasing at an average annual growth rate of 0.6 percent, for a 7-percent increase over the projection period. During the projection period, graduate enrollment is projected to increase at an annual growth rate of 1.0 percent during the 1994–2000 period and decrease at a rate of 0.2 percent during the 2000–2006 period (figure 23).

Under the low alternative, graduate enrollment is expected to decrease from 1.7 million in 1994 to 1.6 million by the year 2006, representing a rate of decline of 0.4 percent per year. Under the high alternative, graduate enrollment is expected to increase from 1.7 million in 1994 to 2.1 million by the year 2006, representing a growth rate of 1.5 percent per year.

First-professional enrollment increased from 275,000 in 1981 to an estimated 301,000 in 1994, an average annual growth rate of 0.7 percent, for a 9-percent increase over the period (table 20 and figure 22). Under the middle alternative, first-professional enrollment is expected to increase to 349,000 by 2006. This represents an average annual increase of 1.2 percent over the projection period, a 16-percent increase from 1994. During the projection period, first-professional enrollment is projected to increase at an average annual rate of 1.8 percent during the 1994–2000 period and a growth rate of 0.7 percent during the 2000–2006 period (figure 23).

Under the low alternative, first-professional enrollment is expected to decrease from 301,000 in 1994 to 282,000 by the year 2006, representing a rate of decline of 0.5 percent per year. Under the high alternative, first-professional enrollment is expected to increase from 301,000 in 1994 to 408,000 by the year 2006, representing a growth rate of 2.6 percent per year.

Full-Time-Equivalent Enrollment

Full-time-equivalent enrollment increased from 9.0 million in 1981 to an estimated 10.2 million in 1994, increasing at an average annual rate of growth of 0.9 percent, for a 13-percent increase over the period (table 23 and figure 24). Under the middle alternative, full-time-equivalent enrollment is expected to increase to 12.3 million by the year 2006, increasing at an average annual growth rate of 1.6 percent, for a 21-percent increase over the projection period. During the projection period, full-time-equivalent

enrollment is projected to increase at an annual growth rate of 2.0 percent during the 1994–2000 period and 1.2 percent during the 2000–2006 period (figure 25).

The full-time-equivalent of undergraduate enrollment in 4-year institutions, which was an estimated 5.7 million in 1994, will be 7.0 million by the year 2006. The full-time-equivalent of undergraduate enrollment in 2-year institutions, which was an estimated 3.2 million in 1994, will be 3.7 million by the year 2006.

In public institutions, full-time-equivalent enrollment, which was an estimated 7.7 million in 1994, will be 9.2 million by the year 2006. In private institutions, full-time-equivalent enrollment, which was an estimated 2.5 million in 1994, will be 3.0 million by the year 2006.

Under the low alternative, full-time-equivalent enrollment is expected to increase from 10.2 million in 1994 to 10.8 million by the year 2006, representing a growth rate of 0.5 percent per year. Under the high alternative, full-time-equivalent enrollment is expected to increase from 10.2 million in 1994 to 13.4 million by the year 2006, representing a growth rate of 2.3 percent per year.

Enrollment, by Age

The alternative projections of higher education enrollment by age, sex, and attendance status are shown in table 6 (middle alternative), table 7 (low alternative), and table 8 (high alternative). These projections are based on age-specific enrollment data from the Bureau of the Census and enrollment data from NCES.

Under the middle alternative, the period from 1986 to 2006 will be one of change in the age distribution of college students. The enrollment of students who are 18-to 24-years old increased from 7.0 million in 1986 to an estimated 7.6 million in 1994, an increase of 9 percent (figure 26). This number is expected to increase to 9.7 million by the year 2006, an increase of 27 percent from 1994. As a result, the proportion of students who are 18- to 24-years old, which fell from 56.2 percent in 1986 to 54.3 percent in 1994, is projected to be 59.1 percent by the year 2006.

On the other hand, the enrollment of students who are 25 years old and over increased from 5.3 million in 1986 to an estimated 6.3 million in 1994, an increase of 19 percent. This number is projected to increase to 6.5 million by the year 2006, an increase of 4 percent. Over the projection period, the proportion of students 25 years old and over rose from 42.2 percent in 1986 to 44.6 percent in 1994. This proportion is projected to be 39.7 percent by the year 2006.



Figure 8
College-age populations (18-24 years and 25-29 years), with projections: 1981 to 2006

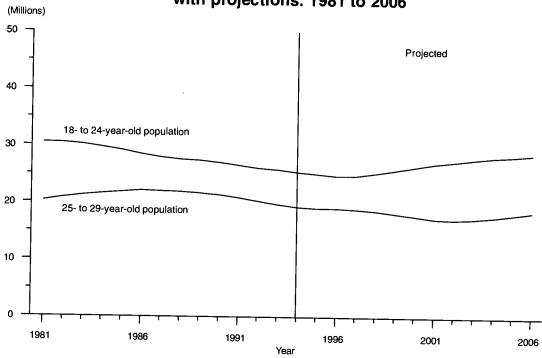


Figure 9
College-age populations (30-34 years and 35-44 years), with projections: 1981 to 2006

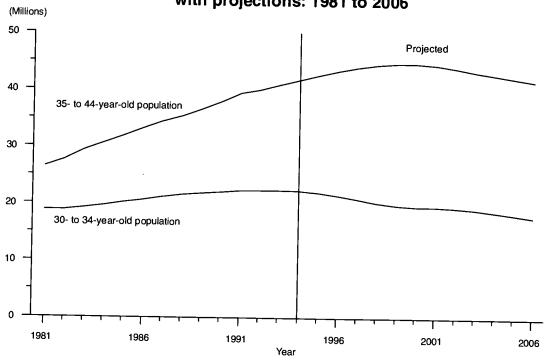




Figure 10
Enrollment in institutions of higher education, with alternative projections: Fall 1981 to fall 2006

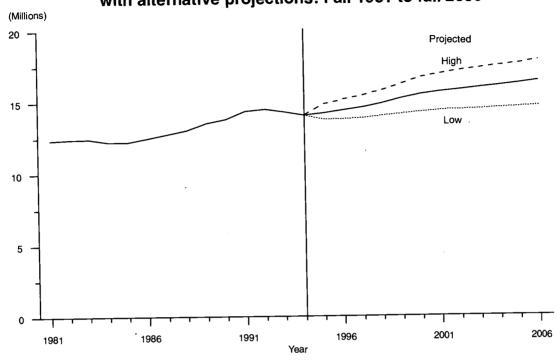


Figure 11

Average annual growth rates for total higher education enrollment

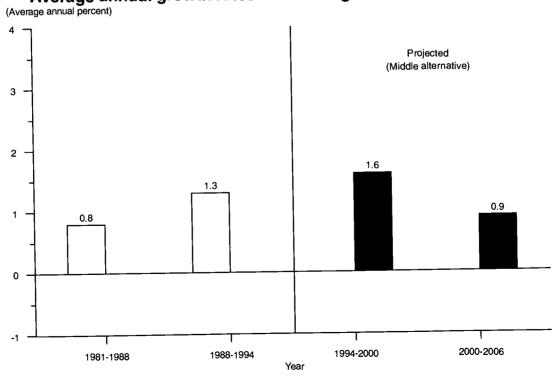




Figure 12
Enrollment in institutions of higher education, by sex, with middle alternative projections: Fall 1981 to fall 2006

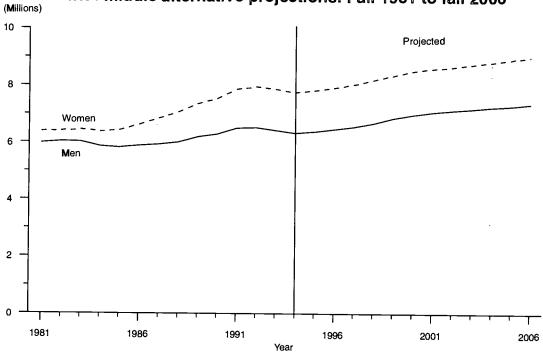


Figure 13

Average annual growth rates for total higher education enrollment, by sex (Average annual percent)

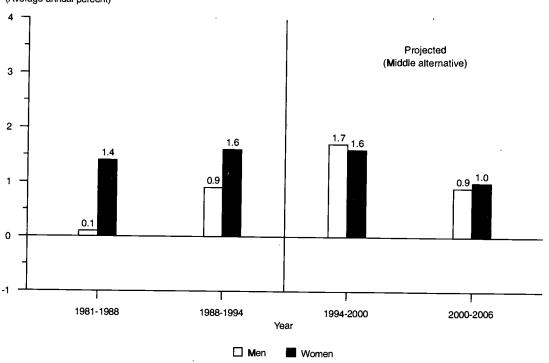




Figure 14
Enrollment in institutions of higher education, by attendance status, with middle alternative projections: Fall 1981 to fall 2006

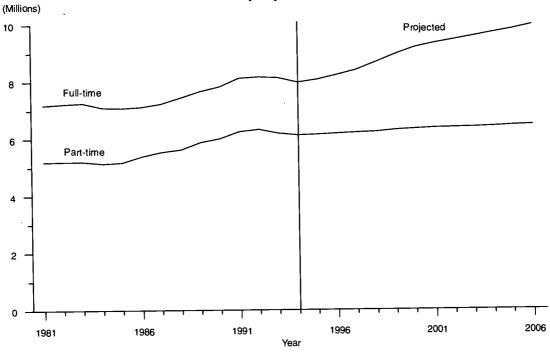


Figure 15

Average annual growth rates for total higher education enrollment, by attendance status

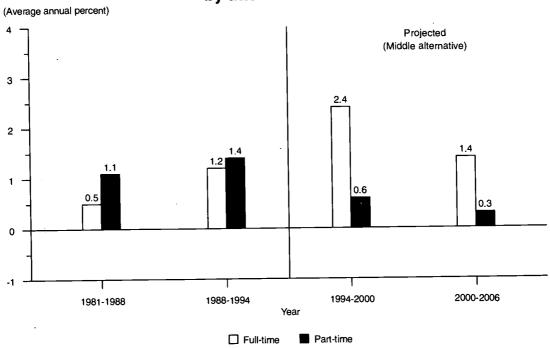




Figure 16
Enrollment in institutions of higher education, by control of institution, with alternative projections: Fall 1981 to fall 2006

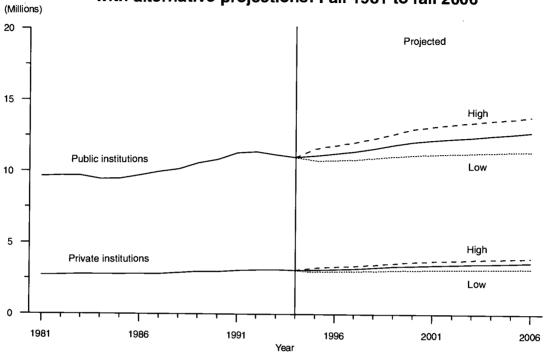


Figure 17
Average annual growth rates for total higher education enrollment, by control of institution

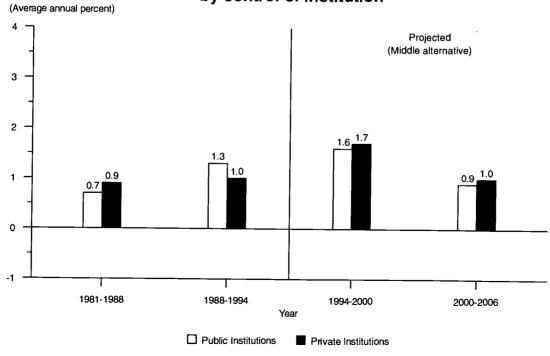




Figure 18
Enrollment in institutions of higher education, by type of institution, with alternative projections: Fall 1981 to fall 2006

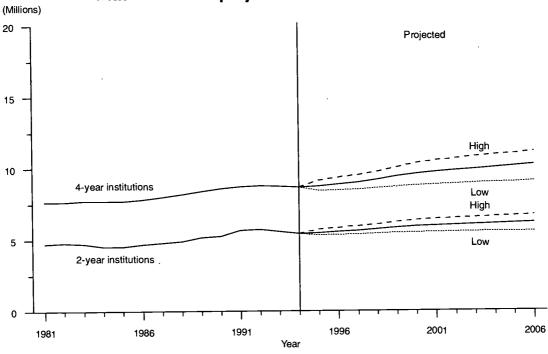


Figure 19
Average annual growth rates for total higher education enrollment, by type of institution

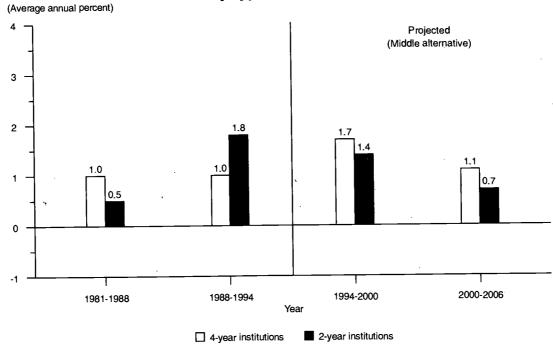




Figure 20
Undergraduate enrollment in institutions of higher education, with alternative projections: Fall 1981 to fall 2006

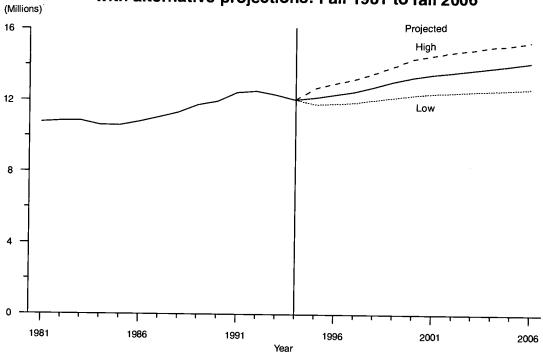


Figure 21

Average annual growth rates for undergraduate enrollment

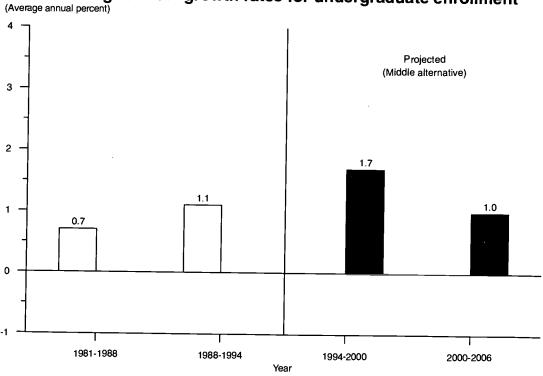




Figure 22
Postbaccalaureate enrollment in institutions of higher education, with alternative projections: Fall 1981 to fall 2006

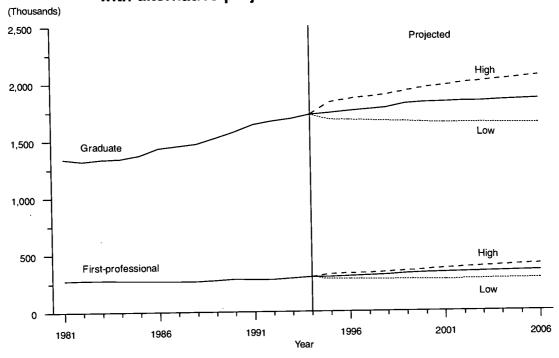


Figure 23

Average annual rates of change for postbaccalaureate enrollment

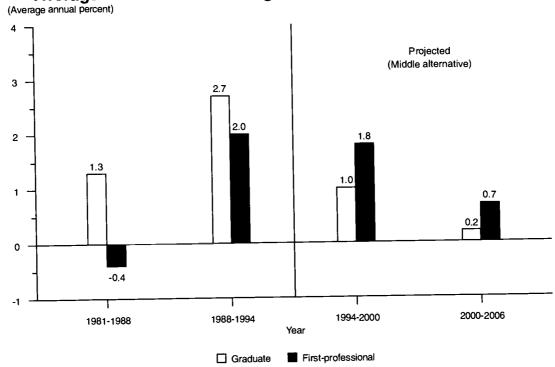




Figure 24
Full-time-equivalent enrollment in institutions of higher education, with alternative projections: Fall 1981 to fall 2006

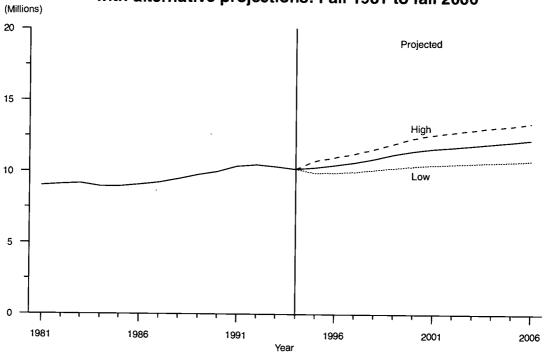


Figure 25
Average annual growth rates for full-time-equivalent enrollment

(Average annual percent)

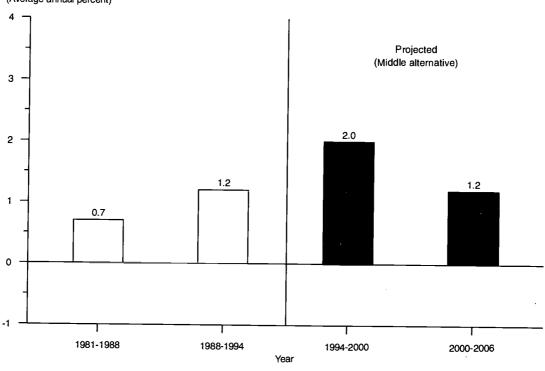




Figure 26
Enrollment in institutions of higher education, by age group, with middle alternative projections: Fall 1986, 1994, and 2006

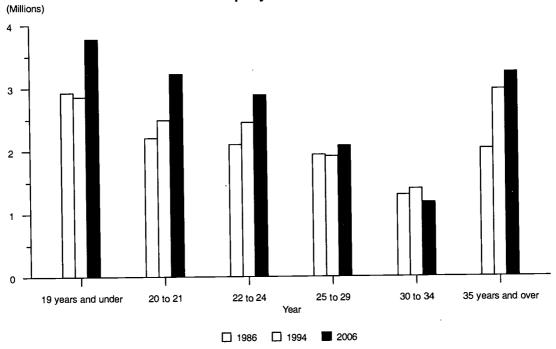




Figure 27
Enrollment of men in institutions of higher education, by age group, with middle alternative projections: Fall 1986, 1994, and 2006

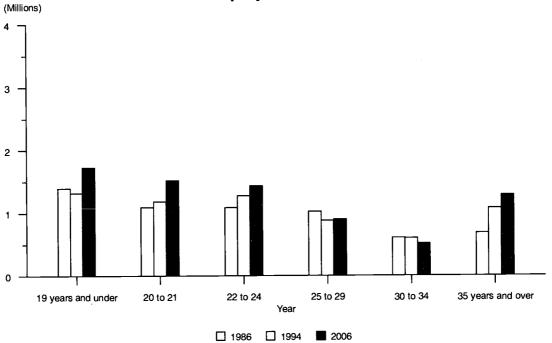


Figure 28
Enrollment of women in institutions of higher education, by age group, with middle alternative projections: Fall 1986, 1994, and 2006

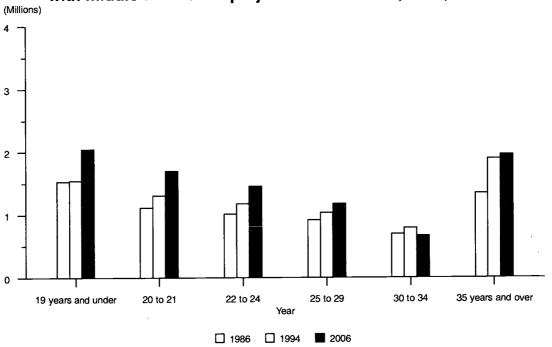




Table 3.—Total enrollment in all institutions of higher education, by sex, attendance status, and control of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Total | : | Sex | Attenda | nce status | Cont | rol |
|--------|----------|----------------|----------|------------------|----------------|-------------------|---------|
| | | Men | Women | Full-time | Part-time | Public | Private |
| 1981 | 12,372 | 5,975 | 6,397 | 7,181 | 5,190 | <u>-</u> 9.647 | 2,725 |
| 1982 | 12,426 | 6,031 | 6,394 | 7,221 | 5,205 | 9,696 | 2,730 |
| 1983 | | 6,024 | 6,441 | 7,261 | 5,204 | 9,683 | 2,782 |
| 1984 | | 5,864 | 6,378 | 7,098 | 5,144 | 9,083 | 2,765 |
| 1985 | | 5,818 | 6,429 | 7,075 | 5,172 | 9,477 | |
| 1986 | | 5,885 | 6,619 | 7,120 | 5,384 | 9,479 9,714 | 2,768 |
| 1987 | | 5,932 | 6,835 | 7,120 | · | • | 2,790 |
| 1988 | | 6,002 | 7,053 | 7,437 | 5,536 | 9,973 | 2,793 |
| 1989 | | 6,190 | 7,349 | • | 5,619 | 10,161 | 2,894 |
| 1990 | 13,820 | 6,284 | 7,535 | 7,661 | 5,878 | 10,578 | 2,961 |
| 1991 | 14,359 | | · | 7,821 | 5,998 | 10,845 | 2,975 |
| 1992 | 14,339 | 6,502 | 7,857 | 8,115 | 6,244 | 11,310 | 3,049 |
| 1993 | 14,400 | 6,524 | 7,963 | 8,161 | 6,325 | 11,385 | 3,102 |
| 1994 * | 14,306 | 6,428 | 7,878 | 8,128 | 6,178 | 11,189 | 3,117 |
| 1994 | 14,082 | 6,328 | 7,754 | 7,968 | 6,114 | 11,008 | 3,074 |
| 1005 | 4.0.0 | | | ilternative proj | ections | | |
| 1995 | | 6,381 | 7,829 | 8,063 | 6,146 | 11,108 | 3,101 |
| 1996 | 14,398 | 6,470 | 7,928 | 8,224 | 6,175 | 11,254 | 3,145 |
| 1997 | 14,596 | 6,549 | 8,047 | 8,396 | 6,200 | 11,405 | 3,191 |
| 1998 | | 6,681 | 8,205 | 8,655 | 6,231 | 11,627 | 3,259 |
| 1999 | | 6,866 | 8,362 | 8,939 | 6,289 | 11,886 | 3,342 |
| 2000 | 15,497 | 6,985 | 8,512 | 9,171 | 6,325 | 12,091 | 3,406 |
| 2001 | 15,671 | 7,079 | 8,592 | 9,318 | 6,353 | 12,225 | 3,446 |
| 2002 | | 7,137 | 8,660 | 9,433 | 6,364 | 12,319 | 3,479 |
| 2003 | | 7,194 | 8,738 | 9,555 | 6,377 | 12,420 | |
| 2004 | | 7,251 | 8,827 | 9,681 | 6,397 | 12,531 | 3,512 |
| 2005 | | 7,304 | 8,925 | 9,800 | 6,428 | | 3,547 |
| 2006 | | 7,375 | 9,014 | 9,943 | | 12,646 | 3,582 |
| | 10,507 | 7,575 | | ternative projec | 6,446 | 12,768 | 3,621 |
| 1995 | 13,766 | 6,128 | 7,638 | | | 10.770 | 2.004 |
| 1996 | | 6,125 | 7,659 | 7,719 | 6,047 | 10,772 | 2,994 |
| 1997 | . 13,858 | • | · | 7,740 | 6,044 | 10,789 | 2,995 |
| 1998 | . 14,004 | 6,152 | 7,706 | 7,808 | 6,049 | 10,847 | 3,011 |
| 1999 | 14,004 | 6,215 | 7,789 | 7,947 | 6,057 | 10,960 | 3,043 |
| 2000 | . 14,135 | 6,276 | 7,859 | 8,072 | 6,063 | 11,062 | 3,074 |
| 2000 | | 6,333 | 7,924 | 8,192 | 6,065 | 11,153 | 3,103 |
| 2001 | | 6,384 | 7,972 | 8,295 | 6,061 | 11,229 | 3,127 |
| 2002 | | 6,411 | 7,987 | 8,345 | 6,053 | 11,259 | 3,140 |
| 2003 | | 6,446 | 8,015 | 8,417 | 6,044 | 11,305 | 3,156 |
| 2004 | | 6,482 | 8,042 | 8,485 | 6,039 | 11,352 | 3,172 |
| 2005 | | 6,507 | 8,063 | 8,539 | 6,032 | 11,386 | 3,185 |
| 2006 | . 14,639 | 6,542 | 8,097 | 8,615 | 6,024 | 11,437 | 3,202 |
| | | | High alt | ternative projec | | , | -, |
| 1995 | | 6,658 | 8,192 | 8,438 | 6,413 | 11,605 | 3,246 |
| 1996 | . 15,155 | 6,726 | 8,430 | 8,674 | 6,481 | 11,841 | 3,314 |
| 1997 | . 15,425 | 6,778 | 8,647 | 8,891 | 6,534 | 12,049 | 3,376 |
| 1998 | | 6,905 | 8,884 | 9,195 | 6,594 | 12,329 | 3,460 |
| 1999 | . 16,214 | 7,041 | 9,172 | 9,545 | | | |
| 2000 | | 7,183 | 9,493 | 9,937 | 6,669 6,739 | 12,653 | 3,560 |
| 2001 | . 16,914 | 7,353 | 9,561 | · | | 13,005 | 3,671 |
| 2002 | . 17,134 | 7,533 7,540 | | 10,166 | 6,748 | 13,182 | 3,732 |
| 2003 | . 17,134 | · | 9,594 | 10,320 | 6,815 | 13,349 | 3,785 |
| 2004 | . 17,290 | 7,654 | 9,642 | 10,479 | 6,817 | 13,468 | 3,828 |
| 2005 | . 17,477 | 7,787 | 9,690 | 10,638 | 6,840 | 13,605 | 3,873 |
| 2005 | | 7,886 | 9,727 | 10,769 | 6,845 | 13,705 | 3,908 |
| 2006 | . 17,823 | 8,038 | 9,785 | 10,940 | 6,883 | 13,865 | 3,958 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 4.—Total enrollment in 4-year institutions of higher education, by sex, attendance status, and control of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| | | | Sex | Attendar | ice status | Cor | trol |
|--------|----------------|-------|----------|----------------------------|------------|--------|---------|
| Year | Total | Men | Women | Full-time | Part-time | Public | Private |
| 1981 | 7,655 | 3,852 | 3,805 | 5,387 | 2,270 | 5,166 | 2,489 |
| 1982 | 7,654 | 3,861 | 3,793 | 5,381 | 2,273 | 5,176 | 2,478 |
| 1983 | 7,741 | 3,893 | 3,849 | 5,434 | 2,307 | 5,223 | 2,518 |
| 1984 | 7,711 | 3,847 | 3,864 | 5,395 | 2,317 | 5,198 | 2,513 |
| 1985 | 7,716 | 3,816 | 3,900 | 5,385 | 2,331 | 5,210 | 2,506 |
| 1986 | 7,824 | 3,824 | 4,000 | 5,423 | 2,401 | 5,300 | 2,524 |
| 1987 | 7,990 | 3,859 | 4,131 | 5,522 | 2,468 | 5,432 | 2,558 |
| 1988 | 8,180 | 3,912 | 4,268 | 5,693 | 2,487 | 5,546 | 2,634 |
| 1989 | 8,388 | 3,973 | 4,414 | 5,805 | 2,582 | 5,694 | 2,693 |
| 1990 | 8,579 | 4,052 | 4,528 | 5,937 | 2,642 | 5,848 | 2,731 |
| 1991 | 8,707 | 4,100 | 4,607 | 6,041 | 2,666 | 5,905 | 2,802 |
| | | 4,110 | 4,654 | 6,081 | 2,683 | 5,900 | 2,864 |
| 1992 | 8,764 8,740 | 4,082 | 4,658 | 6,084 | 2,655 | 5,852 | 2,888 |
| 1993 | , | • | 4,601 | 5,970 | 2,697 | 5,831 | 2,836 |
| 1994 * | 8,667 | 4,067 | | 3,970 ternative project | | 3,631 | 2,030 |
| 1005 | 8,742 | 4,098 | 4,643 | 6,033 | 2,709 | 5,881 | 2,861 |
| 1995 | 8,859 | 4,157 | 4,702 | 6,141 | 2,718 | 5,960 | 2,899 |
| 1996 | • | | | 6,265 | 2,724 | 6,048 | 2,941 |
| 1997 | 8,990 | 4,211 | 4,779 | | 2,724 | 6,178 | 3,003 |
| 1998 | 9,180 | 4,301 | 4,880 | 6,452 | | | 3,003 |
| 1999 | 9,409 | 4,426 | 4,984 | 6,661 | 2,748 | 6,331 | |
| 2000 | 9,593 | 4,508 | 5,085 | 6,837 | 2,756 | 6,456 | 3,137 |
| 2001 | 9,713 | 4,572 | 5,140 | 6,951 | 2,762 | 6,538 | 3,174 |
| 2002 | 9,810 | 4,619 | 5,191 | 7,046 | 2,764 | 6,605 | 3,205 |
| 2003 | 9,907 | 4,662 | 5,246 | 7,143 | 2,764 | 6,671 | 3,236 |
| 2004 | 10,007 | 4,703 | 5,304 | 7,238 | 2,769 | 6,739 | 3,268 |
| 2005 | 10,111 | 4,739 | 5,372 | 7,331 | 2,780 | 6,810 | 3,301 |
| 2006 | 10,223 | 4,791 | 5,431 | 7,440 | 2,782 | 6,887 | 3,336 |
| | | | Low alte | rnative projecti | ons | | |
| 1995 | 8,448 | 3,929 | 4,518 | 5,774 | 2,674 | 5,686 | 2,762 |
| 1996 | 8,451 | 3,923 | 4,529 | 5,780 | 2,671 | 5,689 | 2,762 |
| 1997 | 8,499 | 3,939 | 4,559 | 5,828 | 2,671 | 5,723 | 2,776 |
| 1998 | 8,595 | 3,979 | 4,616 | 5,927 | 2,668 | 5,790 | 2,805 |
| 1999 | 8,685 | 4,020 | 4,665 | 6,020 | 2,666 | 5,853 | 2,832 |
| 2000 | 8,773 | 4,060 | 4,713 | 6,113 | 2,660 | 5,915 | 2,859 |
| 2001 | 8,847 | 4,096 | 4,751 | 6,193 | 2,653 | 5,966 | 2,881 |
| | 8,885 | 4,118 | 4,767 | 6,238 | 2,647 | 5,992 | 2,893 |
| 2002 | • | 4,145 | 4,791 | 6,296 | 2,639 | 6,027 | 2,909 |
| 2003 | 8,935 | • | 4,811 | 6,347 | 2,634 | 6,058 | 2,923 |
| 2004 | 8,981 | 4,170 | • | , | 2,628 | 6,082 | 2,935 |
| 2005 | 9,017 | 4,188 | 4,829 | 6,389 | | - | 2,950 |
| 2006 | 9,068 | 4,213 | 4,855 | 6,448 | 2,620 | 6,118 | 2,930 |
| 1005 | 0.120 | 4.260 | | ernative projecti | 2,825 | 6,145 | 2,994 |
| 1995 | 9,139 | 4,269 | 4,869 | 6,314 | • | | 3,055 |
| 1996 | 9,326 | 4,314 | 5,011 | 6,475 | 2,850 | 6,270 | |
| 1997 | 9,498 | 4,348 | 5,151 | 6,629 | 2,869 | 6,388 | 3,111 |
| 1998 | 9,738 | 4,433 | 5,305 | 6,851 | 2,887 | 6,550 | 3,188 |
| 1999 | 10,021 | 4,527 | 5,494 | 7,108 | 2,913 | 6,742 | 3,279 |
| 2000 | | 4,628 | 5,706 | 7,400 | 2,933 | 6,953 | 3,380 |
| 2001 | 10,505 | 4,748 | 5,756 | 7,576 | 2,929 | 7,068 | 3,436 |
| 2002 | 10,655 | 4,874 | 5,782 | 7,699 | 2,956 | 7,169 | 3,487 |
| 2003 | | 4,958 | 5,817 | 7,823 | 2,952 | 7,249 | 3,526 |
| 2004 | | 5,052 | 5,847 | 7,941 | 2,958 | 7,332 | 3,567 |
| 2005 | • | 5,125 | 5,873 | 8,042 | 2,956 | 7,397 | 3,600 |
| 2006 | | 5,228 | 5,911 | 8,173 | 2,966 | 7,493 | 3,646 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 5.—Total enrollment in 2-year institutions of higher education, by sex, attendance status, and control of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Total | | Sex | Attenda | nce status | Con | trol |
|--------|-------|-------|-----------|--------------------|------------|--------|---------|
| 1 cal | Total | Men | Women | Full-time | Part-time | Public | Private |
| 1981 | 4,716 | 2,124 | 2,591 | 1,796 | 2,919 | 4,481 | 236 |
| 1982 | 4,772 | 2,170 | 2,602 | 1,840 | 2,932 | 4,520 | 252 |
| 1983 | 4,723 | 2,131 | 2,592 | 1,827 | 2,897 | 4,459 | 264 |
| 1984 | 4,531 | 2,017 | 2,514 | 1,704 | 2,827 | 4,279 | 252 |
| 1985 | 4,531 | 2,002 | 2,529 | 1,691 | 2,840 | 4,270 | 261 |
| 1986 | 4,680 | 2,061 | 2,619 | 1,696 | 2,983 | 4,414 | 266 |
| 1987 | 4,776 | 2,073 | 2,703 | 1,709 | 3,068 | 4,541 | 235 |
| 1988 | 4,875 | 2,090 | 2,785 | 1,744 | 3,132 | 4,615 | 260 |
| 1989 | 5,151 | 2,217 | 2,934 | 1,856 | 3,295 | 4,884 | 267 |
| 1990 | 5,240 | 2,233 | 3,007 | 1,884 | 3,356 | 4,996 | 244 |
| 1991 | 5,652 | 2,402 | 3,250 | 2,075 | 3,577 | | |
| 1992 | 5,722 | 2,413 | 3,309 | • | | 5,405 | 247 |
| 1993 | 5,566 | 2,345 | | 2,080 | 3,642 | 5,485 | 238 |
| 1994 * | 5,415 | | 3,220 | 2,043 | 3,522 | 5,337 | 229 |
| 1994 | 3,413 | 2,261 | 3,154 | 1,998 | 3,417 | 5,177 | 238 |
| 1005 | E 460 | 2.202 | | ernative project | | | |
| 1995 | 5,468 | 2,283 | 3,185 | 2,030 | 3,438 | 5,227 | 241 |
| 1996 | 5,539 | 2,313 | 3,226 | 2,083 | 3,456 | 5,294 | 245 |
| 1997 | 5,607 | 2,338 | 3,268 | 2,131 | 3,476 | 5,357 | 250 |
| 1998 | 5,706 | 2,381 | 3,325 | 2,204 | 3,502 | 5,450 | 256 |
| 1999 | 5,819 | 2,441 | 3,379 | 2,278 | 3,541 | 5,556 | 263 |
| 2000 | 5,903 | 2,476 | 3,427 | 2,334 | 3,570 | 5,635 | 269 |
| 2001 | 5,958 | 2,506 | 3,452 | 2,367 | 3,591 | 5,686 | 272 |
| 2002 | 5,988 | 2,518 | 3,469 | 2,387 | 3,601 | 5,714 | 274 |
| 2003 | 6,025 | 2,532 | 3,493 | 2,412 | 3,613 | 5,749 | 276 |
| 2004 | 6,071 | 2,548 | 3,523 | 2,443 | 3,628 | 5,792 | 279 |
| 2005 | 6,118 | 2,565 | 3,553 | 2,469 | 3,649 | 5,836 | 281 |
| 2006 | 6,166 | 2,583 | 3,583 | 2,502 | 3,664 | 5,882 | 285 |
| | -, | _, | <u> </u> | rnative projection | • | 5,002 | 203 |
| 1995 | 5,318 | 2,199 | 3,119 | 1,945 | 3,374 | 5,086 | 232 |
| 1996 | 5,333 | 2,203 | 3,131 | 1,960 | 3,373 | 5,100 | 234 |
| 1997 | 5,359 | 2,213 | 3,146 | 1,981 | 3,379 | 5,100 | |
| 1998 | 5,409 | 2,236 | 3,173 | 2,020 | 3,389 | | 235 |
| 1999 | 5,450 | • | • | • | | 5,170 | 239 |
| 2000 | 5,483 | 2,256 | 3,194 | 2,052 | 3,398 | 5,208 | 242 |
| | • | 2,273 | 3,210 | 2,079 | 3,404 | 5,239 | 244 |
| 2001 | 5,509 | 2,288 | 3,221 | 2,102 | 3,408 | 5,263 | 246 |
| 2002 | 5,513 | 2,293 | 3,220 | 2,107 | 3,406 | 5,267 | 247 |
| 2003 | 5,526 | 2,302 | 3,224 | 2,121 | 3,405 | 5,278 | 248 |
| 2004 | 5,544 | 2,313 | 3,231 | 2,139 | 3,405 | 5,295 | 249 |
| 2005 | 5,553 | 2,319 | 3,234 | 2,150 | 3,404 | 5,303 | 250 |
| 2006 | 5,571 | 2,329 | 3,242 | 2,167 | 3,404 | 5,319 | 251 |
| | | | High alte | rnative projecti | ons | | |
| 1995 | 5,712 | 2,389 | 3,322 | 2,124 | 3,588 | 5,460 | 252 |
| 1996 | 5,830 | 2,411 | 3,419 | 2,199 | 3,631 | 5,571 | 259 |
| 1997 | 5,927 | 2,431 | 3,496 | 2,261 | 3,665 | 5,662 | 265 |
| 1998 | 6,051 | 2,472 | 3,579 | 2,344 | 3,707 | 5,778 | 273 |
| 999 | 6,193 | 2,514 | 3,679 | 2,437 | 3,756 | 5,912 | 281 |
| 2000 | 6,343 | 2,556 | 3,787 | 2,537 | 3,806 | 6,052 | 291 |
| 2001 | 6,409 | 2,605 | 3,805 | 2,590 | 3,819 | 6,114 | 295 |
| 2002 | 6,479 | 2,666 | 3,812 | 2,620 | 3,859 | 6,180 | 299 |
| 2003 | 6,521 | 2,696 | 3,825 | 2,656 | 3,865 | 6,219 | 302 |
| 2004 | 6,578 | 2,736 | 3,843 | 2,696 | 3,882 | 6,273 | |
| 2005 | 6,616 | 2,761 | 3,854 | 2,727 | | | 305 |
| 2006 | 6,684 | 2,810 | | | 3,889 | 6,308 | 308 |
| | 0,004 | 2,010 | 3,874 | 2,768 | 3,917 | 6,372 | 312 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 6.—Enrollment in all institutions of higher education, by age, sex, and attendance status, with middle alternative projections: 50 States and D.C., fall 1986, 1991, 1994, 2001, and 2006

| Age | (Es | 1986 (Estimated) | | (Es | 1991 Sstimated) | | (Pr | 1994 (Projected) | | æ | 2001 (Projected) | | (P | 2006 (Projected) | | |
|-------------------|--------|---------------------|---------------|--------|--------------------|---------------|--------|---------------------|---------------|--------|---------------------|---------------|----------|---------------------|---------------|---|
| | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | |
| Total | 12,504 | 7,120 | 5,384 | 14,359 | 8,115 | 6,244 | 14,082 | 7,968 | 6,114 | 12,671 | 9,318 | 6,353 | 16,389 | 9,943 | 6,446 | |
| 14 to 17 years | 200 | 182 | 18 | 120 | 114 | 9 | 159 | 137 | 22 | 183 | 158 | 24 | 201 | 174 | 77 | |
| 18 to 19 years | 2,727 | 2,415 | 312 | 2,714 | 2,407 | 307 | 2,702 | 2,366 | 336 | 3,346 | 2,908 | 438 | 3,574 | 3,120 | 454 | |
| 20 to 21 years | 2,206 | 1,813 | 392 | 2,769 | 2,299 | 470 | 2,491 | 2,042 | 450 | 2,982 | 2,434 | 547 | 3,221 | 2,626 | 594 | |
| 22 to 24 years | 2,100 | 1,323 | 777 | 2,287 | 1,497 | 790 | 2,450 | 1,569 | 881 | 2,559 | 1,685 | 874 | 2,890 | 1,903 | 286 | |
| 25 to 29 years | 1,941 | 669 | 1,242 | 2,134 | 898 | 1,266 | 1,914 | 99/ | 1,148 | 1,861 | 745 | 1,115 | 2,082 | 820 | 1,262 | |
| 30 to 34 years | 1,301 | 333 | 896 | 1,467 | 401 | 1,066 | 1,394 | 416 | 826 | 1,289 | 407 | 882 | 1,181 | 379 | 802 | |
| 35 years and over | 2,030 | 355 | 1,675 | 2,867 | 228 | 2,339 | 2,972 | 672 | 2,300 | 3,452 | 086 | 2,472 | 3,241 | 920 | 2,322 | |
| Men | 5.885 | 3.599 | 2.285 | 6.502 | 3 979 | 2 572 | 6 378 | 3 860 | 2 468 | 7 070 | 4 537 | 2541 | 7375 | 7 875 | 2 540 | |
| 14 to 17 years | 84 | 78 | 9 | 46 | 36 | 9 | 99 | 53 | 13 | | 19 | 41 | () () | 75 | 7+C,2 | |
| 18 to 19 years | 1,312 | 1,181 | 131 | 1,217 | 1,096 | 121 | 1,250 | 1,100 | 150 | 1.544 | 1.363 | 181 | 1.638 | 1.451 | 187 | • |
| 20 to 21 years | 1,090 | 923 | 191 | 1,306 | 1,077 | 230 | 1,182 | 965 | 217 | 1,424 | 1,171 | 253 | 1,520 | 1,256 | 264 | |
| 22 to 24 years | 1,085 | 720 | 366 | 1,214 | 836 | 378 | 1,273 | 898 | 405 | 1,291 | 890 | 401 | 1,432 | 991 | 440 | |
| 25 to 29 years | 1,026 | 410 | 919 | 1,082 | 494 | 587 | 881 | 407 | 474 | 813 | 372 | 4 | 901 | 418 | 483 | |
| 30 to 34 years | 605 | 167 | 438 | 664 | 190 | 475 | 009 | 178 | 422 | 555 | 991 | 360 | 511 | 159 | 353 | |
| 35 years and over | 683 | 121 | 295 | 972 | 197 | 775 | 1,076 | 290 | 787 | 1,370 | 208 | 862 | 1,282 | 475 | 806 | |
| Women | 6,619 | 3,521 | 3,098 | 7,857 | 4,186 | 3,671 | 7,754 | 4,108 | 3,646 | 8,592 | 4,781 | 3.812 | 9.014 | 5.117 | 3.897 | |
| 14 to 17 years | 116 | 102 | 12 | 75 | 75 | 0 | 93 | 84 | 6 | 101 | 91 | 01 | 110 | 66 | | |
| 18 to 19 years | 1,415 | 1,234 | 181 | 1,497 | 1,311 | 186 | 1,453 | 1,266 | 186 | 1,802 | 1,545 | 258 | 1,936 | 1,669 | 267 | |
| 20 to 21 years | 1,115 | 830 | 225 | 1,463 | 1,223 | 240 | 1,309 | 1,077 | 232 | 1,558 | 1,264 | 295 | 1,701 | 1,371 | 330 | |
| 22 to 24 years | 1,014 | 604 | 411 | 1,072 | 199 | 411 | 1,177 | 701 | 476 | 1,268 | 794 | 474 | 1,458 | 911 | 547 | |
| 25 to 29 years | 916 | 289 | 929 | 1,053 | 374 | 629 | 1,033 | 360 | 674 | 1,048 | 373 | 674 | 1,181 | 402 | 778 | |
| 30 to 34 years | 969 | 991 | 530 | 803 | 211 | 591 | 794 | 238 | 556 | 734 | 241 | 492 | 699 | 220 | 449 | |
| 35 years and over | 1,347 | 233 | 1,114 | 1,895 | 331 | 1,563 | 1,896 | 383 | 1,513 | 2,081 | 472 | 1,610 | 1,960 | 4 4 | 1,516 | |
| | | | | | | | | | | | | | | | | |

NOTE: Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fall Enrollment in Colleges and Universities surveys and Integrated Postsecondary Education Data System (IPEDS) surveys; and U.S. Department of Commerce, Bureau of the Census, unpublished tabulations. (This table was prepared November 1995.)

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Table 7.—Enrollment in all institutions of higher education, by age, sex, and attendance status, with low alternative projections: 50 States and D.C., fall 1986, 1991, 1994, 2001, and 2006

| | (ES | 1986 (Estimated) | | (Es | 1991 stimated) | | (P. | 1994 (Projected) | | (P | 2001 (Projected) | | (Pr | 2006 (Projected) | |
|-------------------|--------|---------------------|---------------|--------|-------------------|---------------|--------|---------------------|---------------|----------|---------------------|---------------|--------|---------------------|---------------|
| Age | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time |
| Total | 12,504 | 7,120 | 5,384 | 14,359 | 8,115 | 6,244 | 14,082 | 7,968 | 6,114 | 14,356 | 8,295 | 6,061 | 14,639 | 8,615 | 6,024 |
| 14 to 17 years | 200 | 182 | 18 | 120 | 114 | 9 | 159 | 137 | 22 | <u>3</u> | 143 | 20 | 178 | 156 | 22 |
| 18 to 19 years | 2,727 | 2,415 | 312 | 2,714 | 2,407 | 307 | 2,702 | 2,366 | 336 | 3,119 | 2,730 | 389 | 3,228 | 2,826 | 403 |
| 20 to 21 years | 2,206 | 1,813 | 392 | 2,769 | 2,299 | 470 | 2,491 | 2,042 | 450 | 2,775 | 2,287 | 488 | 2,898 | 2,389 | 206 |
| 22 to 24 years | 2,100 | 1,323 | 777 | 2,287 | 1,497 | 790 | 2,450 | 1,569 | 881 | 2,275 | 1,443 | 832 | 2,481 | 1,573 | 200 |
| 25 to 29 years | 1,941 | 669 | 1,242 | 2,134 | 898 | 1,266 | 1,914 | 992 | 1,148 | 1,704 | 683 | 1,020 | 1,833 | 735 | 1,098 |
| 30 to 34 years | 1,301 | 333 | 896 | 1,467 | 401 | 1,066 | 1,394 | 416 | 8/6 | 1,225 | 363 | 863 | 1,114 | 330 | 784 |
| 35 years and over | 2,030 | 355 | 1,675 | 2,867 | 528 | 2,339 | 2,972 | 672 | 2,300 | 3,095 | 646 | 2,450 | 2,907 | 909 | 2,301 |
| Men | 5.885 | 3.599 | 2.285 | 6.502 | 3.929 | 2.572 | 6.328 | 3.860 | 2.468 | 6.384 | 3.959 | 2,425 | 6,542 | 4,124 | 2,418 |
| 14 to 17 years | 84 | 78 | 9 | 46 | 39 | 9 | 99 | 53 | 13 | 69 | 59 | 10 | 75 | 2 | Ξ |
| 18 to 19 years | 1.312 | 1.181 | 131 | 1.217 | 1,096 | 121 | 1,250 | 1,100 | 150 | 1,429 | 1,259 | 170 | 1,479 | 1,303 | 176 |
| 20 to 21 years | 1,090 | 923 | 167 | 1,306 | 1,077 | 230 | 1,182 | 965 | 217 | 1,319 | 1,085 | 234 | 1,378 | 1,133 | 245 |
| 22 to 24 years | 1,085 | 720 | 366 | 1,214 | 836 | 378 | 1,273 | 898 | 405 | 1,170 | 794 | 377 | 1,275 | 865 | 410 |
| 25 to 29 years | 1,026 | 410 | 616 | 1,082 | 494 | 587 | 881 | 407 | 474 | 787 | 363 | 424 | 846 | 330 | 455 |
| 30 to 34 years | 909 | 167 | 438 | 664 | 190 | 475 | 009 | 178 | 422 | 526 | 156 | 370 | 476 | 141 | 335 |
| 35 years and over | 683 | 121 | 295 | 972 | 197 | 775 | 1,076 | 290 | 787 | 1,083 | 243 | 840 | 1,013 | 227 | 786 |
| Women | 6619 | 3 521 | 3.098 | 7887 | 4 186 | 3 671 | 7 754 | 4.108 | 3,646 | 7.972 | 4.336 | 3.635 | 8.097 | 4.491 | 3.606 |
| 14 to 17 years | 116 | 105 | 2,2,5 | 75 | 75 | 0 | 93 | 84 | 6 | 95 | 84 | 10 | 103 | 92 | = |
| 18 to 19 years | 1.415 | 1.234 | 181 | 1.497 | 1.311 | 186 | 1,453 | 1,266 | . 981 | 1,690 | 1,471 | 219 | 1,749 | 1,523 | 226 |
| 20 to 21 years | 1,115 | 890 | 225 | 1,463 | 1,223 | 240 | 1,309 | 1,077 | 232 | 1,456 | 1,203 | 253 | 1,520 | 1,256 | 265 |
| 22 to 24 years | 1,014 | 604 | 411 | 1,072 | 661 | 411 | 1,177 | 701 | 476 | 1,104 | 649 | 455 | 1,206 | 402 | 497 |
| 25 to 29 years | 916 | 289 | 626 | 1,053 | 374 | 629 | 1,033 | 360 | 674 | 916 | 320 | 969 | 284 | 345 | 642 |
| 30 to 34 years | 969 | 166 | 530 | 803 | 211 | 591 | 794 | 238 | 556 | 669 | 207 | 492 | 638 | 189 | 449 |
| 35 years and over | 1,347 | 233 | 1,114 | 1,895 | 331 | 1,563 | 1,896 | 383 | 1,513 | 2,012 | 402 | 1,610 | 1,895 | 379 | 1,516 |
| | | | | | | | | | | | | | | | |

NOTE: Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fall Enrollment in Colleges and Universities surveys and Integrated Postsecondary Education Data System (IPEDS) surveys; and U.S. Department of Commerce, Bureau of the Census, unpublished tabulations. (This table was prepared November 1995.)

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Table 8.—Enrollment in all institutions of higher education, by age, sex, and attendance status, with high alternative projections: 50 States and D.C., fall 1986, 1991, 1994, 2001, and 2006

| | (E | 1986 (Estimated) | | (Es | 1991 (Estimated) | | (P | 1994 (Projected) | | (b | 2001 (Projected) | | (Pr | 2006 (Projected) | |
|-------------------|--------|---------------------|---------------|--------|---------------------|---------------|--------|---------------------|---------------|------------|---------------------|---------------|--------|---------------------|---------------|
| Age | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time | Total | Full- time | Part- time |
| Total | 12,504 | 7,120 | 5,384 | 14,359 | 8,115 | 6,244 | 14,082 | 7,968 | 6,114 | 16,914 | 10,166 | 6,748 | 17,823 | 10,940 | 6,883 |
| 14 to 17 years | 200 | 182 | 18 | 120 | 114 | 9 | 159 | 137 | 22 | 193 | 165 | 29 | 214 | 183 | . 31 |
| 18 to 19 years | 2,727 | 2,415 | 312 | 2,714 | 2,407 | 307 | 2,702 | 2,366 | 336 | 3,589 | 3,131 | 458 | 3,791 | 3,303 | 488 |
| 20 to 21 years | 2,206 | 1,813 | 392 | 2,769 | 2,299 | 470 | 2,491 | 2,042 | 450 | 3,238 | 2,655 | 583 | 3,458 | 2,831 | 628 |
| 22 to 24 years | 2,100 | 1,323 | 777 | 2,287 | 1,497 | 790 | 2,450 | 1,569 | 881 | 2,791 | 1,785 | 1,006 | 3,142 | 2,002 | 1,141 |
| 25 to 29 years | 1,941 | 669 | 1,242 | 2,134 | 898 | 1,266 | 1,914 | 992 | 1,148 | 2,101 | 813 | 1,288 | 2,307 | 905 | 1,405 |
| 30 to 34 years | 1,301 | 333 | 896 | 1,467 | 401 | 1,066 | 1,394 | 416 | 826 | 1,353 | 461 | 892 | 1,256 | 428 | 828 |
| 35 years and over | 2,030 | 355 | 1,675 | 2,867 | 528 | 2,339 | 2,972 | 672 | 2,300 | 3,649 | 1,156 | 2,494 | 3,654 | 1,291 | 2,363 |
| Men | 5,885 | 3,599 | 2,285 | 6,502 | 3,929 | 2,572 | 6,328 | 3,860 | 2,468 | 7,353 | 4,724 | 2,629 | 8,038 | 5,308 | 2,730 |
| 14 to 17 years | 84 | 78 | 9 | 4 | 39 | 9 | 99 | 53 | 13 | 87 | 69 | 18 | 66 | 79 | 20 |
| 18 to 19 years | 1,312 | 1,181 | 131 | 1,217 | 1,096 | 121 | 1,250 | 1,100 | 150 | 1,573 | 1,380 | 193 | 1,692 | 1,490 | 202 |
| 20 to 21 years | 1,090 | 923 | 167 | 1,306 | 1,077 | 230 | 1,182 | 965 | 217 | 1,444 | 1,179 | 265 | 1,569 | 1,290 | 279 |
| 22 to 24 years | 1,085 | 720 | 366 | 1,214 | 836 | 378 | 1,273 | 898 | 405 | 1,344 | 925 | 419 | 1,562 | 1,062 | 200 |
| 25 to 29 years | 1,026 | 410 | 919 | 1,082 | 494 | 587 | 881 | 407 | 474 | 839 | 389 | 450 | 948 | 446 | 502 |
| 30 to 34 years | 909 | 167 | 438 | 664 | 190 | 475 | 009 | 178 | 422 | 584 | 185 | 399 | 556 | 176 | 379 |
| 35 years and over | 683 | 121 | 295 | 972 | 197 | 775 | 1,076 | 290 | 787 | 1,481 | 597 | 884 | 1,612 | 765 | 848 |
| Women | 6,619 | 3,521 | 3,098 | 7,857 | 4,186 | 3,671 | 7,754 | 4,108 | 3,646 | 9,561 | 5,442 | 4,120 | 9,785 | 5,632 | 4,153 |
| 14 to 17 years | 116 | <u>1</u> | 12 | 75 | 75 | 0 | 93 | 84 | 6 | 106 | 96 | 10 | 115 | 104 | 11 |
| 18 to 19 years | 1,415 | 1,234 | 181 | 1,497 | 1,311 | 186 | 1,453 | 1,266 | 186 | 2,016 | 1,752 | 264 | 2,099 | 1,813 | 286 |
| 20 to 21 years | 1,115 | 880 | 225 | 1,463 | 1,223 | 240 | 1,309 | 1,077 | 232 | 1,794 | 1,476 | 318 | 1,890 | 1,541 | 349 |
| 22 to 24 years | 1,014 | 60 4 | 411 | 1,072 | 199 | 411 | 1,177 | 701 | 476 | 1,447 | 860 | 587 | 1,581 | 940 | <u>\$</u> |
| 25 to 29 years | 916 | 289 | 979 | 1,053 | 374 | 619 | 1,033 | 360 | 674 | 1,262 | 424 | 838 | 1,359 | 456 | 903 |
| 30 to 34 years | 969 | 166 | 530 | 803 | 211 | 591 | 794 | 238 | 256 | 292 | 276 | 492 | 701 | 252 | 449 |
| 35 years and over | 1,347 | 233 | 1,114 | 1,895 | 331 | 1,563 | 1,896 | 383 | 1,513 | 2,169 | 529 | 1,610 | 2,042 | 256 | 1,516 |
| | | | | | | | | | | | | | | | |

NOTE: Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fall Enrollment in Colleges and Universities surveys and Integrated Postsecondary Education Data System (IPEDS) surveys; and U.S. Department of Commerce, Bureau of the Census, unpublished tabulations. (This table was prepared November 1995.)





Table 9.—Total enrollment in all institutions of higher education, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| 37. | W I | M | len | Wor | nen |
|------------|---------------------------------------|-----------|-------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 12,372 | 3,714 | 2,262 | 3,469 | 2,927 |
| 982 | 12,426 | 3,753 | 2,278 | 3,468 | 2,927 |
| 983 | 12,465 | 3,760 | 2,264 | 3,501 | 2,940 |
| 984 | · | 3,648 | 2,216 | 3,451 | 2,927 |
| 985 | • | 3,608 | 2,211 | 3,468 | 2,961 |
| 986 | • | 3,599 | 2,285 | 3,521 | 3,098 |
| 987 | | 3,611 | 2,321 | 3,620 | 3,214 |
| 988 | * | 3,662 | 2,340 | 3,775 | 3,278 |
| | | • | ' | , | • |
| 989 | | 3,740 | 2,450 | 3,921 | 3,428 |
| 990 | • | 3,808 | 2,477 | 4,013 | 3,522 |
| 991 | | 3,929 | 2,572 | 4,186 | 3,671 |
| 992 | | 3,926 | 2,597 | 4,235 | 3,728 |
| 993 | | 3,891 | 2,537 | 4,237 | 3,641 |
| 994 * | 14,082 | 3,860 | 2,468 | 4,108 | 3,646 |
| | | Midd | lle alternative project | tions | |
| 995 | 14,210 | 3,903 | 2,478 | 4,161 | 3,668 |
| 996 | • | 3,989 | 2,481 | 4,235 | 3,694 |
| 997 | • | 4,067 | 2,482 | 4,329 | 3,718 |
| 998 | | 4,198 | 2,483 | 4,457 | 3,748 |
| · | | • | 2,514 | | 3,775 |
| 999 | | 4,352 | | 4,587 | • |
| 000 | · · · · · · · · · · · · · · · · · · · | 4,458 | 2,526 | 4,713 | 3,799 |
| 001 | | 4,537 | 2,541 | 4,781 | 3,812 |
| 002 | | 4,596 | 2,541 | 4,837 | 3,823 |
| 003 | | 4,654 | 2,540 | 4,901 | 3,837 |
| 004 | 16,078 | 4,712 | 2,540 | 4,970 | 3,857 |
| 005 | 16,229 | 4,753 | 2,551 | 5,047 | 3,878 |
| 006 | 16,389 | 4,825 | 2,549 | 5,117 | 3,897 |
| | , | | v alternative projecti | | , |
| 995 | 13,766 | 3,701 | 2,428 | 4,018 | 3,620 |
| 996 | • | 3,704 | 2,422 | 4,036 | 3,623 |
| 997 | • | 3,732 | 2,421 | 4,077 | 3,629 |
| 998 | • | 3,793 | · | 4,154 | 3,635 |
| | • | | 2,421 | • | • |
| 999 | • | 3,852 | 2,424 | 4,220 | 3,639 |
| .000 | • | 3,908 | 2,425 | 4,284 | 3,640 |
| | · · · · · · · · · · · · · · · · · · · | 3,959 | 2,425 | 4,336 | 3,635 |
| | 14,398 | 3,987 | 2,425 | 4,359 | 3,628 |
| | 14,461 | 4,023 | 2,423 | 4,394 | 3,621 |
| | 14,525 | 4,060 | 2,423 | 4,426 | 3,617 |
| .005 | | 4,087 | 2,421 | 4,452 | 3,611 |
| .006 | 14,639 | 4,124 | 2,418 | 4,491 | 3,606 |
| | - · , - · · | · · | h alternative projecti | · | ., |
| 995 | 14,850 | 4,049 | 2,609 | 4,389 | 3,803 |
| 996 | · · · · · · · · · · · · · · · · · · · | 4,125 | 2,601 | 4,549 | 3,881 |
| | • | · | • | • | |
| 997 | · · · · · · · · · · · · · · · · · · · | 4,178 | 2,600 | 4,712 | 3,935 |
| 998 | | 4,304 | 2,601 | 4,891 | 3,993 |
| 999 | | 4,428 | 2,614 | 5,117 | 4,055 |
| 000 | | 4,564 | 2,619 | 5,373 | 4,120 |
| 2001 | | 4,724 | 2,629 | 5,442 | 4,120 |
| | 17,134 | 4,850 | 2,690 | 5,470 | 4,124 |
| 2003 | 17,296 | 4,964 | 2,689 | 5,514 | 4,128 |
| 2004 | | 5,085 | 2,703 | 5,553 | 4,137 |
| 2005 | | 5,185 | 2,701 | 5,583 | 4,144 |
| | 17,823 | 5,308 | 2,730 | 5,632 | 4,153 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 10.—Total enrollment in public 4-year institutions of higher education, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| V. | Total | M | en | Woi | nen |
|------|----------------|-----------|-------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 5,166 | 1,877 | 692 | 1,741 | 858 |
| 982 | 5,176 | 1,889 | 698 | 1,734 | 855 |
| 83 | 5,223 | 1,910 | 698 | 1,755 | 860 |
| 84 | 5,198 | 1,880 | 694 | 1,749 | 874 |
| 85 | 5,210 | 1,864 | 693 | 1,760 | 893 |
| 86 | 5,300 | 1,865 | 706 | 1,792 | 937 |
| 87 | 5,432 | 1,882 | 723 | 1,854 | 973 |
| 88 | 5,546 | 1,910 | 722 | 1,932 | 982 |
| 89 | 5,694 | 1,938 | 743 | 1,997 | 1.017 |
| 90 | 5,848 | 1,982 | 764 | 2,051 | 1,050 |
| 991 | 5,905 | 2.006 | 765 | 2,083 | 1,050 |
| | 5,900 | 2,005 | 760 | 2,090 | 1,045 |
| 92 | 5,852 | 1,989 | 750 750 | 2,085 | 1,043 |
| 93 | • | • | | | 1,027 |
| 94 * | 5,831 | 1,975 | 755 | 2,038 | 1,064 |
| 05 | E 001 | | lle alternative project | | 1.070 |
| 95 | 5,881 | 1,993 | 757 | 2,062 | 1,069 |
| 96 | 5,960 | 2,031 | 758 | 2,096 | 1,074 |
| 97 | 6,048 | 2,069 | 757 | 2,143 | 1,079 |
| 98 | 6,178 | 2,132 | 756 | 2,206 | 1,084 |
| 99 | 6,331 | 2,207 | 763 | 2,272 | 1,089 |
| 000 | 6,456 | 2,262 | 765 | 2,336 | 1,093 |
| 01 | 6,538 | 2,304 | 768 | 2,372 | 1,095 |
| 02 | 6,605 | 2,337 | 767 | 2,404 | 1,097 |
| 03 | 6,671 | 2,368 | 765 | 2,438 | 1,100 |
| 04 | 6,739 | 2,397 | 764 | 2,473 | 1,104 |
| 05 | 6,810 | 2,420 | 767 | 2,515 | 1,109 |
| 06 | 6.887 | 2,457 | 765 | 2,551 | 1,113 |
| , | 0,007 | • | v alternative projecti | • | -, |
| 95 | 5,686 | 1,894 | 745 | 1,990 | 1,057 |
| 996 | 5,689 | 1,893 | 743 | 1,997 | 1.057 |
| 97 | 5,723 | 1,906 | 743 741 | 2,017 | 1,058 |
| 998 | 5,723 | 1,936 | 740 | 2,056 | 1,058 |
| | , | -, | | • | |
| 999 | 5,853 | 1,966 | 739 | 2,090 | 1,058 |
| 000 | 5,915 | 1,996 | 737 | 2,125 | 1,056 |
| 001 | 5,966 | 2,023 | 735 | 2,154 | 1,054 |
| 002 | 5,992 | 2,040 | 734 | 2,167 | 1,051 |
| 003 | 6,027 | 2,060 | 732 | 2,187 | 1,048 |
| 004 | 6,058 | 2,078 | 731 | 2,203 | 1,045 |
| 005 | 6,082 | 2,093 | 730 | 2,217 | 1,043 |
| 006 | 6,118 | 2,112 | 728 | 2,237 | 1,040 |
| | | High | h alternative projecti | ons | |
| 95 | 6,145 | 2,066 | 796 | 2,175 | 1,108 |
| 96 | 6,270 | 2,099 | 794 | 2,251 | 1,127 |
| 97 | 6,388 | 2,123 | 792 | 2,331 | 1,142 |
| 98 | 6,550 | 2,183 | 790 | 2,422 | 1,156 |
| 99 | 6.742 | 2,245 | 792 | 2,533 | 1,171 |
| 00 | 6,953 | 2,313 | 792 | 2,661 | 1,187 |
| 001 | 7.068 | 2,394 | 792 | 2,699 | 1,184 |
| 002 | 7,008 7,169 | 2,394 | 811 | 2,716 | 1,184 |
| | • | • | | , | 1,183 |
| 003 | 7,249 | 2,516 | 809 | 2,741 | |
| 004 | 7,332 | 2,575 | 812 | 2,760 | 1,184 |
| 005 | 7,397 | 2,625 | 811 | 2,777 | 1,185 |
| 006 | 7,493 | 2,687 | 818 | 2,803 | 1,185 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 11.—Total enrollment in public 2-year institutions of higher education, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Voor | (Dada) | M | en | Woi | nen |
|----------|--------|-----------|------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 1981 | 4,481 | 827 | 1,192 | 803 | 1,658 |
| 1982 | 4,520 | 851 | 1,195 | 810 | 1,664 |
| 1983 | 4,459 | 827 | 1,175 | 807 | 1,650 |
| 1984 | 4,279 | 762 | 1,138 | 756 | 1,623 |
| 1985 | 4,270 | 743 | 1,138 | 754 | 1,635 |
| 1986 | 4,414 | 742 | 1,193 | 764 | 1,715 |
| 1987 | 4,541 | 744 | 1,225 | 787 | 1,785 |
| 1988 | 4,615 | 746 | 1,231 | 822 | 1,817 |
| 1989 | 4,884 | 793 | 1,302 | 881 | 1,907 |
| 1990 | 4,996 | 811 | 1,318 | 906 | 1,962 |
| 1991 | 5,405 | 882 | 1,414 | 1,004 | 2,105 |
| 1992 | 5,485 | 878 | 1,431 | 1,037 | 2,138 |
| 1993 | 5,337 | 859 | 1,386 | | |
| 1994 * | 5,177 | | | 1,030 | 2,063 |
| 1777 | 3,177 | 847 | 1,311 | 984 | 2,035 |
| 1995 | 5 227 | | le alternative project | | 2.050 |
| | 5,227 | 861 | 1,316 | 1,000 | 2,050 |
| 1996 | 5,294 | 888 | 1,318 | 1,021 | 2,067 |
| 1997 | 5,357 | 909 | 1,320 | 1,044 | 2,083 |
| 1998 | 5,450 | 944 | 1,324 | 1,076 | 2,105 |
| 1999 | 5,556 | 982 | 1,343 | 1,106 | 2,125 |
| 2000 | 5,635 | 1,006 | 1,353 | 1,134 | 2,143 |
| 2001 | 5,686 | 1,023 | 1,363 | 1,147 | 2,153 |
| 2002 | 5,714 | 1,032 | 1,365 | 1,156 | 2,161 |
| 2003 | 5,749 | 1,043 | 1,367 | 1,168 | 2,171 |
| 2004 | 5,792 | 1.057 | 1,369 | 1,183 | 2,184 |
| 2005 | 5,836 | 1,065 | 1,376 | 1,198 | 2,197 |
| 2006 | 5,882 | 1,081 | 1,377 | 1,213 | 2,211 |
| | 0,002 | | alternative projection | | 2,211 |
| 1995 | 5,086 | 814 | 1,285 | 968 | 2,019 |
| 1996 | 5,100 | 820 | 1,282 | 976 | , |
| 1997 | 5,124 | 829 | | | 2,021 |
| 1998 | , | | 1,283 | 986 | 2,026 |
| 1999 | 5,170 | 847 | 1,286 | 1,005 | 2,032 |
| | 5,208 | 861 | 1,291 | 1,020 | 2,037 |
| 2000 | 5,239 | 873 | 1,294 | 1,032 | 2,039 |
| 2001 | 5,263 | 884 | 1,297 | 1,042 | 2,039 |
| 2002 | 5,267 | 888 | 1,299 | 1,044 | 2,036 |
| 2003 | 5,278 | 894 | 1,300 | 1,050 | 2,034 |
| 2004 | 5,295 | 903 | 1,302 | 1,057 | 2,033 |
| 2005 | 5,303 | 908 | 1,302 | 1,062 | 2,031 |
| 2006 | 5,319 | 916 | 1,303 | 1,070 | 2,030 |
| | | Higl | alternative projection | , | _, |
| 1995 | 5,460 | 892 | 1,388 | 1,054 | 2,126 |
| 1996 | 5,571 | 917 | 1,383 | 1,098 | 2,173 |
| 997 | 5,662 | 934 | 1,384 | 1,139 | 2,205 |
| 1998 | 5,778 | 968 | 1,389 | 1,180 | 2,242 |
| 999 | 5,912 | 998 | 1,398 | , | |
| 2000 | 6,052 | 1,029 | | 1,235 | 2,280 |
| 2001 | | | 1,405 | 1,296 | 2,322 |
| | 6,114 | 1,066 | 1,414 | 1,308 | 2,326 |
| 2002 | 6,180 | 1,091 | 1,448 | 1,311 | 2,331 |
| 2003 | 6,219 | 1,116 | 1,449 | 1,318 | 2,336 |
| 2004 | 6,273 | 1,145 | 1,458 | 1,326 | 2,343 |
| 2005 | 6,308 | 1,168 | 1,459 | 1,332 | 2,349 |
| 2006 | 6,372 | 1,195 | 1,477 | 1,342 | 2,358 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 12.—Total enrollment in private 4-year institutions of higher education, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| | | M | en | Wor | nen |
|--------|--------|------------|------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 1981 | 2,489 | 939 | 344 | 830 | 376 |
| 1982 | 2,478 | 933 | 341 | 824 | 380 |
| 1983 | 2,518 | 935 | 350 | 834 | 399 |
| 984 | 2,512 | 926 | 346 | 839 | 401 |
| 1985 | 2,506 | 917 | 342 | 844 | 403 |
| 1986 | 2,524 | 910 | 343 | 856 | 415 |
| 1987 | 2,558 | 908 | 346 | 878 | 426 |
| 1988 | 2,634 | 933 | 347 | 918 | 436 |
| 1989 | 2,693 | 933 | 360 | 938 | 463 |
| 1990 | 2,731 | 944 | 361 | 959 | 467 |
| 1991 | 2,802 | 962 | 367 | 990 | 483 |
| 1992 | 2,864 | 970 | 375 | 1,016 | 503 |
| | 2,888 | 973 | 369 | 1,037 | 508 |
| 1993 | 2,836 | 965 | 372 | 992 | 507 |
| 1994 * | 2,630 | | lle alternative projec | | 501 |
| 1005 | 2 96 1 | 974 | 374 | 1,004 | 509 |
| 1995 | 2,861 | | 374 | 1,020 | 512 |
| 1996 | 2,899 | 993 | | , | 514 |
| 1997 | 2,941 | 1,010 | 374 | 1,043 | - |
| 1998 | 3,003 | 1,041 | 373 | 1,073 | 516 |
| 1999 | 3,078 | 1,078 | 377 | 1,104 | 519 |
| 2000 | 3,137 | 1,104 | 377 | 1,136 | 520 |
| 2001 | 3,174 | 1,123 | 378 | 1,152 | 521 |
| 2002 | 3,205 | 1,138 | 377 | 1,168 | 522 |
| 2003 | 3,236 | 1,152 | 376 | 1,184 | 523 |
| 2004 | 3,268 | 1,166 | 375 | 1,201 | 525 |
| 2005 | 3,301 | 1,177 | 376 | 1,221 | 528 |
| 2006 | 3,336 | 1,194 | 375 | 1,238 | 529 |
| | , | Lov | v alternative projecti | ions | |
| 1995 | 2,762 | 922 | 368 | 968 | 504 |
| 1996 | 2,762 | 920 | 367 | 971 | 504 |
| 1997 | 2,776 | 925 | 367 | 980 | 504 |
| 1998 | 2,805 | 937 | 366 | 997 | 504 |
| 1999 | 2,832 | 950 | 365 | 1,013 | 504 |
| | 2,859 | 963 | 364 | 1,029 | 503 |
| 2000 | , | 903 975 | 363 | 1,042 | 502 |
| 2001 | 2,881 | | 362 | 1,042 | 500 |
| 2002 | 2,893 | 983 | | 1,058 | 499 |
| 2003 | 2,909 | 992 | 360 | | 498 |
| 2004 | 2,923 | 1,000 | 360 | 1,066 | |
| 2005 | 2,935 | 1,007 | 358 | 1,072 | 497 |
| 2006 | 2,950 | 1,016 | 357 | 1,082 | 495 |
| | | | h alternative project | | 550 |
| 1995 | 2,994 | 1,014 | 393 | 1,060 | 528 |
| 1996 | 3,055 | 1,030 | 392 | 1,096 | 537 |
| 1997 | 3,111 | 1,041 | 391 | 1,135 | 544 |
| 1998 | 3,188 | 1,070 | 390 | 1,177 | 550 |
| 1999 | 3,279 | 1,099 | 391 | 1,231 | 558 |
| 2000 | 3,380 | 1,133 | 390 | 1,293 | 565 |
| 2001 | 3,436 | 1,173 | 390 | 1,310 | 563 |
| 2002 | 3,487 | 1,206 | 399 | 1,319 | 563 |
| 2003 | 3,526 | 1,235 | 397 | 1,331 | 563 |
| 2004 | 3,567 | 1,266 | 399 | 1,340 | 563 |
| 2005 | 3,600 | 1,292 | 397 | 1,348 | 563 |
| | | 1,323 | 400 | 1,360 | 563 |
| 2006 | 3,646 | 1,323 | | | |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 13.—Total enrollment in private 2-year institutions of higher education, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Total | M | len | Wor | nen |
|-------|-------|----------------------|------------------------|-----------|-----------|
| i cai | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 236 | 71 | 34 | 95 | 35 |
| 982 | 252 | 80 | 45 | 99 | 28 |
| 983 | 264 | 88 | 41 | 105 | 30 |
| 984 | 252 | 79 | 37 | 106 | 29 |
| 985 | 261 | 84 | 38 | | |
| 986 | 266 | 83 | 43 | 110 | 30 |
| 987 | | | | 108 | 32 |
| | 235 | 76 · | 30 | 102 | 29 |
| 988 | 260 | 73 | 40 | 103 | 44 |
| 989 | 267 | 76 | 45 | 105 | 41 |
| 990 | 244 | 71 | 34 | 96 | 43 |
| 991 | 247 | 80 | 27 | 109 | 32 |
| 992 | 238 | 74 | 30 | 91 | 43 |
| 93 | 229 | 70 | 31 | 85 | 43 |
| 94 * | 238 | 73 | 30 | 94 | 41 |
| | -00 | | le alternative project | | 41 |
| 95 | 241 | 74 | 30 | 95 | 41 |
| 96 | 245 | 7 7 77 | | | 41 |
| 97 | | | 31 | 97 | 41 |
| | 250 | 78 | 31 | 99 | 42 |
| 98 | 256 | 82 | 31 | 102 | 42 |
| 99 | 263 | 85 | 31 | 105 | 42 |
| 00 | 269 | 87 | 31 | 108 | 43 |
| 01 | 272 | 88 | 32 | 109 | 43 |
| 02 | 274 | 89 | 32 | 110 | 43 |
| 03 | 276 | 90 | 32 | 111 | 43 |
| 04 | 279 | 91 | 32 | 112 | 44 |
| 05 | 281 | 92 | | | 3.3 |
| 06 | | | 32 | 114 | 44 |
| 00 | 285 | 93 | 32 | 115 | 44 |
| 0.5 | | | alternative projection | | |
| 95 | 232 | 70 | 30 | 92 | 40 |
| 96 | 234 | 71 · | 30 | 93 | 40 |
| 97 | 235 | 72 | 30 | 94 | 40 |
| 98 | 239 | 73 | 30 | 95 | 41 |
| 99 | 242 | 74 | 30 | 97 | 41 |
| 00 | 244 | 75 | 30 | 98 | 41 |
| 01 | 246 | 76 | 30 | 99 | |
| 02 | 247 | 70 77 | | | 41 |
| 03 | | | 30 | 99 | 41 |
| | 248 | 77 | 30 | 100 | 41 |
| 04 | 249 | 78 | 30 | 100 | 41 |
| 05 | 250 | 78 | 30 | 101 | 41 |
| 06 | 251 | 79 | 30 | 102 | 41 |
| | | High | alternative projection | ons | |
| 95 | 252 | 77 | 32 | 100 | 42 |
| 96 | 259 | 79 | 32 | 104 | 43 |
| 97 | 265 | 81 | 32 | 108 | 44 |
| 98 | 273 | 84 | 32 | 112 | 45 |
| 99 | 281 | 86 | 32 | | |
| 00 | 291 | | | 117 | 46 |
| | | 89 | 33 | 123 | 46 |
| 01 | 295 | 92 | 33 | 124 | 46 |
| 02 | 299 | 94 | 34 | 125 | 47 |
| 03 | 302 | 96 | 34 | 125 | 47 |
| 04 | 305 | 99 | 34 | 126 | 47 |
| 05 | 308 | 101 | 34 | 127 | 47 |
| 06 | 312 | 103 | 34 | 127 | 47 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 14.—Undergraduate enrollment in all institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | 77.4.1 | M | len | Wor | men |
|-------|--------|----------------|------------------------|-----------|-----------|
| 1 car | Total | Full-time | Part-time | Full-time | Part-time |
| 1981 | 10,755 | 3,261 | 1,848 | 3,188 | 2,458 |
| 1982 | 10,825 | 3,299 | 1,871 | 3,184 | 2,470 |
| 1983 | 10,846 | 3,304 | 1,854 | 3,210 | 2,478 |
| 1984 | 10,618 | 3,195 | 1,812 | 3,153 | 2,459 |
| 1985 | 10,597 | 3,156 | 1,806 | 3,163 | 2,471 |
| 986 | 10,798 | 3,146 | 1,871 | 3,206 | 2,575 |
| 987 | 11,046 | 3,164 | 1,905 | 3,299 | 2,679 |
| 988 | 11,317 | 3,206 | 1,931 | , | |
| 989 | 11,742 | 3,279 | 2,032 | 3,436 | 2,743 |
| 990 | 11,959 | 3,337 | | 3,562 | 2,869 |
| 991 | 12,439 | , | 2,043 | 3,640 | 2,940 |
| 992 | , | 3,436 | 2,135 | 3,786 | 3,082 |
| | 12,537 | 3,424 | 2,158 | 3,819 | 3,135 |
| 993 | 12,324 | 3,382 | 2,102 | 3,797 | 3,043 |
| 994 * | 12,057 | 3,328 | 2,015 | 3,688 | 3,026 |
| 005 | | | le alternative project | ions | |
| 995 | 12,171 | 3,368 | 2,021 | 3,737 | 3,045 |
| 996 | 12,336 | 3,442 | 2,022 | 3,806 | 3,066 |
| 997 | 12,519 | 3,514 | 2,024 | 3,893 | 3.088 |
| 998 | 12,786 | 3,630 | 2,026 | 4,013 | 3,116 |
| 999 | 13,085 | 3,758 | 2,053 | 4,132 | 3,143 |
| | 13,336 | 3,856 | 2,066 | 4,247 | 3,167 |
| 001 | 13,508 | 3,934 | 2,081 | 4,312 | 3,181 |
| 002 | 13.627 | 3,986 | 2,083 | 4,363 | 3,194 |
| 003 | 13,757 | 4,041 | 2,085 | 4,422 | 3,209 |
| 004 | 13,893 | 4,093 | 2,083 | | • |
| 005 | 14,035 | • | | 4,485 | 3,227 |
| 006 | 14,189 | 4,132 | 2,100 | 4,557 | 3,247 |
| | 14,109 | 4,199 | 2,101 | 4,623 | 3,265 |
| 995 | 11 700 | | alternative projection | | |
| 996 | 11,799 | 3,209 | 1,976 | 3,613 | 3,001 |
| 007 | 11,829 | 3,220 | 1,970 | 3,637 | 3,003 |
| 997 | 11,908 | 3,251 | 1,969 | 3,680 | 3,008 |
| 998 | 12,063 | 3,317 | 1,972 | 3,759 | 3,015 |
| 999 | 12,198 | 3,377 | 1,976 | 3,825 | 3,021 |
| 000 | 12,327 | 3,435 | 1,979 | 3,889 | 3,024 |
| 001 | 12,432 | 3,485 | 1,983 | 3,941 | 3,023 |
| 002 | 12,474 | 3,511 | 1,984 | 3,960 | 3.019 |
| | 12,539 | 3,545 | 1,986 | 3,993 | 3,015 |
| 004 | 12,600 | 3,577 | 1,988 | 4,021 | 3,013 |
| 005 | 12,646 | 3,602 | 1,989 | 4,045 | 3,010 |
| 006 | 12,718 | 3,638 | 1,990 | 4,083 | 3,007 |
| | , - | | alternative projection | | 3,007 |
| 995 | 12,697 | 3,473 | 2,129 | 3,936 | 3,159 |
| 996 | 12,966 | 3,538 | 2,129 | | • |
| 997 | 13,215 | • | • | 4,083 | 3,225 |
| 998 | 13,554 | 3,590 3,701 | 2,120 | 4,234 | 3,271 |
| 999 | | 3,701 | 2,123 | 4,406 | 3,324 |
| | 13,940 | 3,812 | 2,136 | 4,614 | 3,379 |
| 000 | 14,360 | 3,931 | 2,144 | 4,846 | 3,438 |
| 001 | 14,575 | 4,064 | 2,155 | 4,913 | 3,443 |
| 002 | 14,760 | 4,165 | 2,208 | 4,937 | 3,450 |
| 003 | 14,904 | 4,260 | 2,210 | 4,978 | 3,457 |
| 004 | 15,059 | 4,356 | 2,224 | 5,012 | 3,467 |
| 005 | 15,174 | 4,435 | 2,225 | 5,039 | 3,474 |
| 006 | 15,362 | 4,537 | 2,253 | 5,087 | 3,485 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fall Enrollment in Colleges and Universities surveys and Integrated Postsecondary Education Data System (IPEDS) surveys. (This table was prepared November 1995.)

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Table 15.—Undergraduate enrollment in public institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| 1995 9,884 2,555 1996 10,016 2,614 1997 10,159 2,669 1998 10,368 2,758 1999 10,603 2,856 2000 10,797 2,931 2001 10,930 2,989 2002 11,019 3,028 2003 11,118 3,069 2004 11,223 3,108 2005 11,333 3,137 2006 11,452 3,188 1995 9,589 2,434 1996 9,613 2,442 1997 9,674 2,466 1998 9,792 2,516 1999 9,896 2,562 2000 9,992 2,605 2001 10,071 2,643 2002 10,101 2,661 2003 10,149 2,687 2004 10,195 2,711 2005 10,299 2,730 2006 </th <th>Men</th> <th colspan="3">Women</th> | Men | Women | | |
|--|--------------------------|-----------|-----------|--|
| 1982 8,713 2,487 1983 8,697 2,482 1984 8,494 2,390 1985 8,478 2,357 1986 8,661 2,351 1987 8,919 2,375 1988 9,103 2,399 1989 9,488 2,470 1999 10,148 2,610 1992 10,216 2,602 1994* 9,792 2,524 1995 9,884 2,555 1996 10,016 2,614 1997 10,159 2,669 1998 10,368 2,758 1999 10,603 2,856 2000 10,797 2,931 2001 10,930 2,989 2002 11,118 3,069 2004 11,223 3,108 2005 11,333 3,137 2006 11,452 3,188 1995 9,889 2,434 1997 9,674 2,466 1998 9,992 2,516 1999 9,896 2,562 2000 9,992 2,516 1999 9,896 2,562 2000 10,071 2,641 2003 10,101 2,661 2003 10,101 2,661 2003 10,101 2,661 2004 10,195 2,711 2005 10,299 2,300 2006 10,299 2,730 2007 2008 2,877 1998 10,299 2,730 2006 10,283 2,757 1995 10,299 2,730 2006 10,299 2,730 2007 2,989 10,989 2,814 1999 11,290 2,898 2000 11,617 2,989 2001 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 11,617 2,989 2000 2000 2000 2000 2000 2000 2000 | Part-time | Full-time | Part-time | |
| 983 8,697 2,482 984 8,494 2,390 985 8,478 2,357 986 8,661 2,351 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 Mi PSSS PSSS PSSS PSSSS PSSSSS PSSSSSSSSS | 1,639 | 2,373 | 2,185 | |
| 984 8,494 2,390 985 8,478 2,357 986 8,661 2,351 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 Wind 7,792 2,524 Wind 7,752 7,758 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,603 2,856 000 10,797 2,931 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,188 1995 9,589 <td>1,653</td> <td>2,373</td> <td>2,201</td> | 1,653 | 2,373 | 2,201 | |
| 985 8,478 2,357 986 8,661 2,351 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 999 10,603 2,856 999 10,603 2,856 999 10,603 2,856 999 10,603 2,856 900 11,019 3,028 001 10,930 2,989 002 11,118 3,069 004 11,223 3,108 005 11,333 </td <td>1,635</td> <td>2,385</td> <td>2,195</td> | 1,635 | 2,385 | 2,195 | |
| 985 8,478 2,357 986 8,661 2,351 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 895 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 999 10,603 2,856 999 10,603 2,856 900 10,797 2,931 901 10,930 2,989 902 11,019 3,028 903 11,118 3,069 904 11,223 3,108 905 9,589 2,434 995 9,589 <td>1,600</td> <td>2,325</td> <td>2,179</td> | 1,600 | 2,325 | 2,179 | |
| 986 8,661 2,351 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 Mi 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 095 9,589 2,434 996 9,613 2,442 | 1,596 | 2,331 | 2,193 | |
| 987 8,919 2,375 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 Mi 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,603 2,856 999 10,603 2,856 900 10,797 2,931 901 10,603 2,885 902 11,019 3,028 903 11,118 3,069 904 11,223 3,108 905 9,589 2,434 999 9,613 2,442 995 9,613 2,442 997 9,674 2,466 998 9,792 2,516 | 1,652 | 2,367 | 2,291 | |
| 988 9,103 2,399 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 999 10,603 2,856 900 10,797 2,931 901 10,930 2,989 902 11,019 3,028 903 11,118 3,069 904 11,123 3,108 905 9,589 2,434 996 9,613 2,442 997 9,674 2,466 997 9,674 2,466 997 9,792 2,516 999 9,886 | 1,701 | 2,449 | 2,393 | |
| 989 9,488 2,470 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994 9,792 2,524 995 9,884 2,555 996 10,016 2,614 999 10,603 2,856 900 10,797 2,931 901 10,930 2,989 900 11,118 3,069 901 11,118 3,069 902 11,1019 3,028 903 11,145 3,188 909 9 1,1603 2,856 900 11,1752 3,188 900 11,183 3,137 9006 11,1452 3,188 999 9,589 2,434 999 9,613 2,442 999 9,614 2,466 998 9,792 2,516 999 9,896 2,562 999 9,896 2,562 999 9,896 2,562 999 9,896 2,562 999 9,896 2,562 999 9,896 2,562 990 9,89 | 1,714 | 2,550 | 2,439 | |
| 990 9,710 2,527 991 10,148 2,610 992 10,216 2,602 993 10,012 2,566 994* 9,792 2,524 Mi 995 9,884 2,555 996 10,016 2,614 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 10,995 9,589 2,434 996 9,613 2,442 997 9,674 2,466 998 9,792 2,516 999 9,896 2,562 000 9,992 2,605 000 9,992 2,730 000 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 005 10,229 2,730 006 10,283 2,757 007 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 000 11,617 2,989 000 11,617 2,989 000 11,782 3,090 | 1,801 | 2,663 | 2,553 | |
| 10,148 2,610 10,216 2,602 10,216 2,602 10,012 2,566 10,012 2,524 10,015 2,524 10,016 2,614 10,017 2,069 10,016 2,614 10,017 2,031 10,000 10,797 2,931 10,010 10,930 2,989 10,001 10,930 2,989 10,003 11,118 3,069 10,005 11,233 3,108 10,006 11,223 3,108 10,006 11,452 3,188 10,006 11,452 3,188 10,006 11,452 3,188 10,006 10,007 2,643 10,001 2,661 10,001 2,661 10,001 2,661 10,002 2,730 10,004 10,195 2,711 10,005 10,229 2,730 10,006 10,229 2,730 10,006 10,283 2,757 10,724 2,728 10,999 10,989 2,814 10,999 10,989 2,814 10,000 11,007 2,687 10,000 10,099 2,898 10,989 2,814 10,999 11,290 2,898 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,000 11,617 2,989 10,001 11,782 3,090 11,782 3,090 | 1,826 | 2,734 | 2,623 | |
| 10,216 2,602 10,012 2,566 10,012 2,566 10,016 2,614 2,555 2,669 2,669 2,524 2,555 2,669 2,669 2,669 2,526 2,528 2,529 2,669 2,529 2,669 2,529 2,669 2,529 2,669 2,529 2,669 2,529 2,669 2,529 2,669 2,529 2,669 2,529 | 1,921 | 2,851 | 2,766 | |
| 10,012 2,566 9,792 2,524 Misses 9,792 2,524 Misses 9,792 2,524 Misses 9,792 2,524 Misses 9,884 2,555 2,669 | 1,935 | 2,883 | 2,797 | |
| Page 2 | 1,882 | 2,860 | 2,704 | |
| Misses 9,884 2,555 10,016 2,614 10,777 10,159 2,669 10,888 10,368 2,758 10,999 10,603 2,856 10,000 10,797 2,931 10,119 3,028 10,202 11,019 3,028 11,118 3,069 11,118 3,069 11,123 3,108 11,123 3,108 11,452 3,184 11,452 3,188 11,452 3,188 | | 2,775 | 2,693 | |
| 995 9,884 2,555 196 10,016 2,614 197 10,159 2,669 198 10,368 2,758 199 10,603 2,856 100 10,797 2,931 1001 10,930 2,989 102 11,019 3,028 103 11,118 3,069 104 11,223 3,108 105 11,333 3,137 106 11,452 3,188 1095 9,589 2,434 2995 9,613 2,442 2997 9,674 2,466 2998 9,792 2,516 2999 9,896 2,562 2000 9,992 2,605 201 10,101 2,661 202 10,101 2,661 203 10,149 2,687 204 10,195 2,711 205 10,229 2,730 205 1 | 1,800 | | 2,093 | |
| 10,016 | ddle alternative project | | 2.710 | |
| 997 10,159 2,669 998 10,368 2,758 999 10,603 2,856 900 10,797 2,931 901 10,930 2,989 902 11,019 3,028 903 11,118 3,069 904 11,223 3,108 905 11,333 3,137 906 9,589 2,434 996 9,613 2,442 997 9,674 2,466 999 9,896 2,562 900 9,992 2,605 901 10,071 2,643 902 10,101 2,661 903 10,149 2,687 904 10,195 2,711 905 10,229 2,730 906 10,283 2,757 995 10,229 2,730 906 10,229 2,687 997 10,724 2,728 998 10,724 | 1,806 | 2,813 | 2,710 | |
| 998 10,368 2,758 999 10,603 2,856 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 095 9,589 2,434 099 9,613 2,442 099 9,674 2,466 0998 9,792 2,516 0999 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 10,724 2,728 999 10,724 2,728 999 10,989 2,814 999 11,290 2,898 | 1,807 | 2,865 | 2,730 | |
| 999 10,603 2,856 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 095 9,589 2,434 096 9,613 2,442 099 9,674 2,466 099 9,896 2,562 000 9,992 2,605 0001 10,071 2,643 0002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 0995 10,529 2,687 0996 10,529 2,687 0997 10,724 2,728 0996 10,989 2,814 0999 <td< td=""><td>1,809</td><td>2,931</td><td>2,750</td></td<> | 1,809 | 2,931 | 2,750 | |
| 000 10,797 2,931 001 10,930 2,989 002 11,019 3,028 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 095 9,589 2,434 996 9,613 2,442 997 9,674 2,466 998 9,792 2,516 999 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 4996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 9999 11,290 2,898 000 <td>1,812</td> <td>3,021</td> <td>2,776</td> | 1,812 | 3,021 | 2,776 | |
| 1001 10,930 2,989 1002 11,019 3,028 1003 11,118 3,069 1004 11,223 3,108 1055 11,333 3,137 1066 11,452 3,188 1095 9,589 2,434 1096 9,613 2,442 1097 9,674 2,466 1098 9,792 2,516 1099 9,896 2,562 1001 10,071 2,643 1002 10,101 2,661 1003 10,149 2,687 1004 10,195 2,711 1005 10,229 2,730 1006 10,283 2,757 10995 10,724 2,728 10996 10,989 2,814 10999 11,290 2,898 1000 11,617 2,989 1001 11,617 2,989 1001 11,782 3,090 | 1,836 | 3,110 | 2,800 | |
| 1002 11,019 3,028 1003 11,118 3,069 1004 11,223 3,108 1005 11,333 3,137 1006 11,452 3,188 L 1095 9,589 2,434 1096 9,613 2,442 1097 9,674 2,466 1098 9,792 2,516 1099 9,896 2,562 1000 9,992 2,605 1001 10,071 2,643 1002 10,101 2,661 1003 10,149 2,687 1004 10,195 2,711 1005 10,229 2,730 1006 10,283 2,757 10995 10,724 2,728 10996 10,989 2,814 10999 11,290 2,898 1000 11,617 2,989 1001 11,782 3,090 | 1,848 | 3,196 | 2,822 | |
| 003 11,118 3,069 004 11,223 3,108 005 11,333 3,137 006 11,452 3,188 L 095 9,589 2,434 0996 9,613 2,442 0997 9,674 2,466 0998 9,792 2,516 0999 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 0995 10,529 2,687 9997 10,724 2,728 9998 10,989 2,814 9999 11,290 2,898 0000 11,617 2,989 0001 11,782 3,090 | 1,861 | 3,244 | 2,835 | |
| 3004 11,223 3,108 3005 11,333 3,137 3006 11,452 3,188 L 395 9,589 2,434 396 9,613 2,442 397 9,674 2,466 398 9,792 2,516 3099 9,896 2,562 3000 9,992 2,605 301 10,071 2,643 302 10,101 2,667 303 10,149 2,687 304 10,195 2,711 305 10,229 2,730 306 10,283 2,757 399 10,283 2,757 4995 10,529 2,687 3996 10,529 2,687 3997 10,724 2,728 3998 10,989 2,814 3999 11,290 2,898 3000 11,617 2,989 3001 11,782 3,090 | 1,864 | 3,281 | 2,846 | |
| 004 11,223 3,108 005 11,333 3,137 106 11,452 3,188 L 095 9,589 2,434 096 9,613 2,442 097 9,674 2,466 098 9,792 2,516 099 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 095 10,529 2,687 097 10,724 2,728 098 10,989 2,814 0999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,866 | 3,325 | 2,859 | |
| 3005 11,333 3,137 3006 11,452 3,188 3095 9,589 2,434 3096 9,613 2,442 3097 9,674 2,466 3098 9,792 2,516 3099 9,896 2,562 3000 9,992 2,605 3001 10,071 2,643 3002 10,101 2,661 3003 10,149 2,687 3004 10,195 2,711 3005 10,229 2,730 3006 10,283 2,757 3095 10,313 2,636 3097 10,724 2,728 3098 10,989 2,814 3099 11,290 2,898 3000 11,617 2,989 3001 11,782 3,090 | 1,868 | 3,372 | 2,876 | |
| 006 11,452 3,188 1995 9,589 2,434 1996 9,613 2,442 1997 9,674 2,466 1998 9,792 2,516 1999 9,896 2,562 1000 9,992 2,605 1001 10,071 2,643 1002 10,101 2,661 1003 10,149 2,687 1004 10,195 2,711 1005 10,229 2,730 1006 10,283 2,757 H 10,529 2,687 10,724 2,728 10,989 2,814 1099 11,290 2,898 1000 11,617 2,989 1001 11,782 3,090 | 1,878 | 3,425 | 2,893 | |
| Dept. Sept. | 1,880 | 3,474 | 2,910 | |
| 995 9,589 2,434 996 9,613 2,442 997 9,674 2,466 998 9,792 2,516 999 9,896 2,562 900 9,992 2,605 901 10,071 2,643 902 10,101 2,661 903 10,149 2,687 904 10,195 2,711 905 10,229 2,730 906 10,283 2,757 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 900 11,617 2,989 901 11,782 3,090 | ow alternative projecti | | , | |
| 996 9,613 2,442 997 9,674 2,466 998 9,792 2,516 999 9,896 2,562 900 9,992 2,605 901 10,071 2,643 902 10,101 2,661 903 10,149 2,687 904 10,195 2,711 905 10,229 2,730 906 10,283 2,757 997 10,529 2,687 998 10,724 2,728 999 11,290 2,898 900 11,617 2,989 901 11,782 3,090 | 1,765 | 2,720 | 2,671 | |
| 997 9,674 2,466 998 9,792 2,516 999 9,896 2,562 900 9,992 2,605 901 10,071 2,643 902 10,101 2,661 903 10,149 2,687 904 10,195 2,711 905 10,229 2,730 906 10,283 2,757 997 10,529 2,687 998 10,989 2,814 9999 11,290 2,898 9000 11,617 2,989 9001 11,782 3,090 | 1,760 | 2,739 | 2,672 | |
| 998 9,792 2,516 999 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,760 | 2,771 | 2,677 | |
| 999 9,896 2,562 000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,762 | 2,829 | 2,684 | |
| 0000 9,992 2,605 001 10,071 2,643 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | · | • | 2,689 | |
| 0001 10,071 2,643 0002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 9999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,767 | 2,878 | 2,692 | |
| 002 10,101 2,661 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,770 | 2,925 | , | |
| 003 10,149 2,687 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 9999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,773 | 2,963 | 2,692 | |
| 004 10,195 2,711 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,775 | 2,977 | 2,688 | |
| 005 10,229 2,730 006 10,283 2,757 H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,776 | 3,001 | 2,685 | |
| 006 10,283 2,757 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,778 | 3,022 | 2,683 | |
| H 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,779 | 3,040 | 2,680 | |
| 995 10,313 2,636 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,780 | 3,068 | 2,678 | |
| 996 10,529 2,687 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | ligh alternative project | ions | | |
| 997 10,724 2,728 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,903 | 2,963 | 2,811 | |
| 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,895 | 3,075 | 2,871 | |
| 998 10,989 2,814 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,895 | 3,189 | 2,913 | |
| 999 11,290 2,898 000 11,617 2,989 001 11,782 3,090 | 1,899 | 3,317 | 2,960 | |
| 000 11,617 2,989 001 11,782 3,090 | 1,910 | 3,473 | 3,009 | |
| 001 | 1,918 | 3,648 | 3,062 | |
| , , , , , , , , , , , , , , , , , , | 1,929 | 3,697 | 3,067 | |
| | 1,975 | 3,714 | 3,073 | |
| 003 | 1,977 | 3,744 | 3,079 | |
| | 1,990 | 3,769 | 3,088 | |
| | 1,990 | 3,789 | 3,095 | |
| 005 | 2,016 | 3,824 | 3,105 | |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 16.—Undergraduate enrollment in private institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Total | Men | | Women | |
|-------|-------|-----------|------------------------|-----------|-----------|
| | | Full-time | Part-time | Full-time | Part-time |
| 1981 | 2,106 | 809 | 209 | 816 | 272 |
| 1982 | 2,112 | 812 | 219 | 811 | 270 |
| 983 | 2,149 | 823 | 219 | 824 | 283 |
| 984 | 2,124 | 805 | 212 | 827 | 280 |
| 985 | 2,120 | 800 | 210 | | |
| 986 | 2,120 | 796 | | 832 | 278 |
| 987 | 2,128 | | 219 | 839 | 284 |
| 988 | | 788 | 204 | 850 | 286 |
| | 2,213 | 807 | 217 | 886 | 304 |
| 989 | 2,255 | 808 | 231 | 899 | 316 |
| 990 | 2,250 | 810 | 217 | 905 | 317 |
| 991 | 2,291 | 825 | 215 | 935 | 316 |
| 992 | 2,320 | 823 | 223 | 936 | 338 |
| 993 | 2,312 | 816 | 220 | 937 | 338 |
| 994 * | 2,264 | 804 | 215 | 912 | 333 |
| | | Midd | le alternative project | ions | 330 |
| 995 | 2,286 | 812 | 215 | 924 | 335 |
| 996 | 2,320 | 829 | 215 | 940 | 336 |
| 997 | 2,360 | 845 | 215 | 962 | 338 |
| 998 | 2,419 | 872 | 215 | | |
| 999 | 2,483 | 901 | | 992 | 340 |
| 000 | | | 217 | 1,021 | 343 |
| 001 | 2,539 | 925 | 218 | 1,051 | 345 |
| | 2,579 | 945 | 219 | 1,068 | 346 |
| 002 | 2,608 | 959 | 220 | 1,082 | 348 |
| 003 | 2,639 | 973 | 220 | 1,097 | 350 |
| 004 | 2,669 | 985 | 220 | 1,113 | 351 |
| 005 | 2,702 | 995 | 221 | 1,132 | 354 |
| 006 | 2,737 | 1,011 | 221 | 1,149 | 355 |
| | | Low | alternative projection | | 555 |
| 995 | 2,210 | 776 | 211 | 893 | 330 |
| 996 | 2,216 | 777 | 210 | 899 | 330 |
| 97 | 2,234 | 785 | 210 | 909 | |
| 998 | 2,270 | 801 | 209 | | 330 |
| 999 | 2,302 | 815 | | 930 | 331 |
| 000 | • | | 209 | 947 | 331 |
| 001 | 2,334 | 830 | 209 | 964 | 331 |
| | 2,361 | 843 | 209 | 978 | 331 |
| 002 | 2,373 | 849 | 210 | 983 | 331 |
| 003 | 2,390 | 858 | 210 | 992 | 330 |
| 004 | 2,405 | 866 | 210 | 999 | 330 |
| 005 | 2,417 | 872 | 210 | 1,005 | 330 |
| 006 | 2,435 | 881 | 210 | 1,015 | 329 |
| | | High | alternative projection | • | |
| 95 | 2,383 | 837 | 226 | 973 | 348 |
| 96 | 2,438 | 850 | 225 | 1,008 | 354 |
| 97 | 2,491 | 862 | 225 | 1,045 | |
| 98 | 2,566 | 888 | | | 359 |
| 99 | • | | 224 | 1,089 | 364 |
| 00 | 2,650 | 914 | 225 | 1,140 | 370 |
| | 2,743 | 943 | 226 | 1,199 | 376 |
| 01 | 2,793 | 974 | 227 | 1,216 | 376 |
| 002 | 2,831 | 998 | 233 | 1,223 | 377 |
| 003 | 2,865 | 1,021 | 233 | 1,234 | 377 |
| 04 | 2,899 | 1,043 | 234 | 1,243 | 378 |
| 005 | 2,925 | 1,062 | 234 | 1,250 | 379 |
| 006 | 2,966 | 1,086 | 237 | 1,263 | 380 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 17.—Graduate enrollment in all institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| | Total | M | len | Women | |
|------|-------|-------------|--------------------------------|-----------|------------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 1,343 | 277 | 397 | 207 | 462 |
| 982 | 1,322 | 280 | 390 | 205 | 447 |
| 983 | 1.340 | 286 | 391 | 211 | 452 |
| 084 | 1,345 | 286 | 386 | 215 | 459 |
| 085 | 1,376 | 289 | 388 | 220 | 479 |
| 86 | 1,435 | 294 | 399 | 228 | 514 |
| 87 | 1,452 | 294 | 400 | 233 | 525 |
| 88 | 1,472 | 304 | 393 | 249 | 526 |
| 89 | 1,522 | 309 | 401 | 263 | 548 |
| 90 | 1,586 | 321 | 416 | 278 | 571 |
| 91 | 1,639 | 341 | 419 | 300 | 578 |
| 92 | 1,669 | 351 | 421 | 314 | 582 |
| - | * | 355 | 417 | 334 | 584 |
| 93 | 1,689 | | | | |
| 94 * | 1,724 | 367 Mida | 434 Un altamatica projec | 316 | 607 |
| 95 | 1,736 | 369 | lle alternative project 438 | 318 | 611 |
| | • | | | | |
| 96 | 1,754 | 377 | 440 | 323 | 615 |
| 97 | 1,765 | 382 | 439 | 327 | 617 |
| 98 | 1,781 | 392 | 437 | 334 | 618 |
| 99 | 1,813 | 410 | 442 | 342 | 619 |
| 00 | 1,826 | 415 | 441 | 350 | 619 |
| 01 | 1,827 | 416 | 441 | 352 | 617 |
| 02 | 1,832 | 421 | 438 | 356 | 617 |
| 03 | 1,834 | 423 | 435 | 360 | 616 |
| 04 | 1,841 | 427 | 433 | 364 | 617 |
| 005 | 1,847 | 429 | 432 | 368 | 618 |
| 006 | 1,851 | 432 | 429 | 371 | 619 |
| | | Lov | v alternative projecti | ons | |
| 95 | 1,682 | 339 | 433 | 304 | 606 |
| 996 | 1,675 | 334 | 433 | 300 | 608 |
| 97 | 1,670 | 331 | 433 | 298 | 608 |
| 98 | 1,664 | 329 | 431 | 297 | 607 |
| 99 | 1,660 | 328 | 429 | 297 | 606 |
| 00 | 1,653 | 327 | 427 | 297 | 603 |
| 001 | 1,648 | 327 | 424 | 297 | 600 |
| 002 | 1,646 | 329 | 422 | 299 | 597 |
| 003 | 1,644 | 330 | 419 | 301 | 593 |
| | 1,644 | | | 304 | 593 591 |
| 004 | • | 333 | 416 | | |
| 005 | 1,642 | 334 | 414 | 306 | 589 |
| 006 | 1,639 | 335 | 411 | 306 | 586 |
| 005 | 1.000 | | h alternative projecti | | (2) |
| 995 | 1,829 | 397 | 460 | 340 | 631 |
| 96 | 1,857 | 405 | 461 | 350 | 642 |
| 97 | 1,875 | 406 | 460 | 359 | 649 |
| 98 | 1,893 | 416 | 458 | 364 | 655 |
| 99 | 1,923 | 425 | 458 | 378 | 662 |
| 000 | 1,955 | 437 | 456 | 396 | 667 |
| 001 | 1,969 | 455 | 453 | 397 | 663 |
| 002 | 1,995 | 473 | 462 | 400 | 660 |
| 003 | 2,006 | 486 | 459 | 403 | 658 |
| 004 | 2,024 | 503 | 458 | 406 | 657 |
| 005 | 2,038 | 518 | 456 | 408 | 656 |
| 006 | 2,053 | 532 | 457 | 409 | 655 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 18.—Graduate enrollment in public institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Tot-1 | M | (en | Women | |
|-------|-------|-----------|------------------------|-----------|-----------|
| i cai | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 887 | 177 | 242 | 138 | 329 |
| 982 | 870 | 180 | 237 | 136 | 317 |
| 983 | 872 | 184 | 235 | 140 | 313 |
| 984 | 870 | 182 | 229 | 142 | 317 |
| 985 | 891 | 181 | 232 | 144 | 333 |
| 986 | 941 | 188 | 244 | 150 | 358 |
| 987 | 945 | 185 | | | |
| 988 | 949 | | 244 | 152 | 364 |
| | | 193 | 236 | 163 | 357 |
| 089 | 978 | 195 | 242 | 171 | 369 |
| 990 | 1,023 | 203 | 253 | 180 | 388 |
| 91 | 1,050 | 215 | 255 | 192 | 388 |
| 992 | 1,058 | 221 | 253 | 200 | 384 |
| 993 | 1,064 | 221 | 252 | 207 | 383 |
| 94 * | 1,097 | 230 | 262 | 200 | 404 |
| | | Midd | le alternative project | tions | - |
| 95 | 1,104 | 232 | 264 | 202 | 406 |
| 96 | 1,115 | 237 | 266 | . 204 | 408 |
| 97 | 1,123 | 240 | 265 | 208 | 410 |
| 98 | 1,133 | 246 | 264 | 212 | 411 |
| 99 | 1,153 | 257 | 267 | 217 | |
| 000 | • | | | | 411 |
| | 1,161 | 261 | 267 | 222 | 411 |
| 01 | 1,161 | 262 | 266 | 223 | 410 |
| 02 | 1,165 | 264 | 265 | 226 | 410 |
| 03 | 1,166 | 266 | 263 | 228 | 409 |
| 04 | 1,170 | 268 | 261 | 231 | 410 |
| 05 | 1,174 | 269 | 261 | 233 | 411 |
| 06 | 1,177 | 271 | 259 | 235 | 411 |
| | | Low | alternative projection | ons | |
| 95 | 1,070 | 213 | 262 | 193 | 403 |
| 96 | 1,065 | 210 | 262 | 190 | 404 |
| 97 | 1,063 | 208 | 261 | 189 | 404 |
| 98 | 1,058 | 207 | 260 | 188 | 404 |
| 99 | 1,056 | | | | |
| | * * | 206 | 259 | 188 | 403 |
| 00 | 1,052 | 205 | 258 | 188 | 401 |
| 01 | 1,048 | 205 | 256 | 188 | 399 |
| 02 | 1,047 | 206 | 255 | 190 | 396 |
| 03 | 1,046 | 208 | 253 | 191 | 394 |
| 04 | 1,046 | 209 | 251 | 193 | 393 |
| 005 | 1,045 | 210 | 250 | 194 | 391 |
| 06 | 1,042 | 210 | 248 | 194 | 390 |
| | | High | alternative projection | ons | |
| 95 | 1,163 | 250 | 278 | 216 | 419 |
| 96 | 1,181 | 254 | 278 | 222 | 426 |
| 97 | 1,192 | 255 | 278 | 228 | 431 |
| 98 | 1,204 | 261 | 277 | 231 | |
| 99 | 1,223 | 267 | 277 | | 435 |
| 00 | | | | 240 | 440 |
| | 1,244 | 274 | 275 | 251 | 443 |
| 01 | 1,252 | 286 | 274 | 252 | 440 |
| 02 | 1,268 | 297 | 279 | 254 | 439 |
| 03 | 1,275 | 306 | 277 | 255 | 437 |
| 04 | 1,286 | 316 | 277 | 257 | 436 |
| 05 | 1,295 | 325 | 275 | 259 | 436 |
| 06 | 1,305 | 334 | 276 | 260 | 435 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 19.—Graduate enrollment in private institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| | Total | | len | Women | |
|------|-------|-----------|-------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 456 | 100 | 155 | 69 | 132 |
| 982 | 453 | 100 | 153 | 69 | 131 |
| 83 | 468 | 103 | 156 | 71 | 138 |
| 84 | 476 | 104 | 156 | 75 | 142 |
| 85 | 486 | 108 | 156 | 76 | 147 |
| 986 | 494 | 106 | 155 | 78 | 156 |
| 987 | 507 | 108 | 156 | 82 | 161 |
| | 522 | 111 | 157 | 86 | 168 |
| 988 | 544 | 114 | 159 | 92 | 179 |
| 000 | | | 163 | 98 | 184 |
| 990 | 563 | 118 | | | |
| 991 | 589 | 126 | 164 | 109 | 190 |
| 992 | 611 | 130 | 168 | 114 | 198 |
| 993 | 626 | 133 | 165 | 126 | 201 |
| 94 * | 628 | 136 | 172 | 116 | 204 |
| | | Mido | lle alternative project | tions | |
| 995 | 632 | 137 | 173 | 117 | 205 |
| 996 | 639 | 140 | 174 | 118 | 206 |
| 997 | 643 | 142 | 174 | 120 | 207 |
| 998 | 649 | 146 | 173 | 122 | 208 |
| 999 | 660 | 152 | 175 | 125 | 208 |
| 000 | 665 | 154 | 175 | 128 | 208 |
| | 665 | 155 | 175 | 129 | 207 |
| 001 | | | 173 | 130 | 207 |
| 002 | 667 | 156 | | | |
| 003 | 668 | 157 | 172 | 132 | 207 |
| 004 | 670 . | 159 | 171 | 133 | 207 |
| 005 | 673 | 159 | 171 | 135 | 207 |
| 006 | 674 | 161 | 170 | 136 | 208 |
| | | Lov | w alternative projecti | ons | |
| 995 | 612 | 126 | 171 | 111 | 203 |
| 996 | 609 | 124 | 171 | 110 | 204 |
| 997 | 608 | 123 | 171 | 109 | 204 |
| 998 | 605 | 122 | 171 | 109 | 204 |
| 999 | 604 | 122 | 170 | 109 | 203 |
| 000 | 601 | 121 | 169 | 109 | 203 |
| 001 | 599 | 121 | 168 | 109 | 201 |
| 002 | 599 | 122 | 167 | 110 | 200 |
| 003 | 598 | 123 | 166 | 110 | 199 |
| | 598 | 124 | 165 | 111 | 198 |
| 004 | | | | | 198 |
| 005 | 598 | 124 | 164 | 112 | |
| 006 | 596 | 125 | 163 | 112 | 197 |
| | | _ | h alternative projecti | | |
| 995 | 666 | 148 | 182 | 125 | 212 |
| 996 | 676 | 151 | 182 | 128 | 215 |
| 997 | 683 | 151 | · 182 | 132 | 218 |
| 998 | 689 | 155 | 181 | 133 | 220 |
| 999 | 700 | 158 | 181 | 139 | 222 |
| 000 | 712 | 162 | 180 | 145 | 224 |
| 001 | 717 | 169 | 179 | 145 | 222 |
| 002 | 727 | 176 | 183 | 147 | 222 |
| .003 | 731 | 181 | 182 | 148 | 221 |
| | | 187 | 181 | 149 | 220 |
| | 737 | | | | |
| | 742 | 193 | 180 | 150 | 220 |
| .006 | 748 | 198 | 181 | 150 | 220 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 20.—First-professional enrollment in all institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Varr | Total | Men | | Women | | |
|-------|-------|-----------|-------------------------|--------------|-----------|--|
| Year | Total | Full-time | Part-time | Full-time | Part-time | |
| 1981 | 275 | 175 | 18 | 73 | 9 | |
| 982 | 278 | 174 | 17 | 78 | 9 | |
| 983 | 279 | 169 | 19 | 81 | 10 | |
| 984 | 279 | 166 | 19 | 83 | 10 | |
| 985 | 274 | 162 | 17 | 84 | 10 | |
| 986 | 270 | 159 | 15 | 87 | 9 | |
| | | | | | • | |
| 987 | 268 | 154 | 16 | 88 | 10 | |
| 988 | 267 | 151 | 16 | 90 | 10 | |
| 989 | 274 | 153 | 16 | 95 | 10 | |
| 990 | 274 | 150 | 17 | 96 | 11 | |
| 991 | 281 | 152 | 18 | 100 | 11 | |
| 992 | 281 | 151 | 18 | 101 | 11 | |
| 993 | 292 | 154 | 19 | 106 | 14 | |
| 994 * | 301 | 165 | 19 | 105 | 13 | |
| | | Midd | lle alternative project | tions | | |
| 995 | 303 | 166 | 19 | 105 | 13 | |
| 996 | 308 | 169 | 19 | 107 | 13 | |
| 997 | 312 | 171 | 19 | 107 | 13 | |
| | | | | | | |
| 998 | 319 | 176 | 19 | 111 | 13 | |
| 999 | 330 | 184 | 19 | 113 | 13 | |
| 000 | 335 | 187 | 19 | 116 | 13 | |
| 001 | 336 | 187 | 19 | 117 | 13 | |
| 002 | 339 | 189 | 19 | 118 | 13 | |
| 003 | 341 | 190 | 19 | 119 | 13 | |
| 004 | 345 | 192 | 19 | 121 | 13 | |
| 005 | 346 | 192 | 19 | 122 | 13 | |
| 006 | 349 | 194 | 19 | 123 | 13 | |
| | 0.,, | | v alternative projecti | - | | |
| 995 | 285 | 152 | 19 | 101 | 13 | |
| 996 | 281 | 150 | 19 | 99 | 13 | |
| | | | | 99 | | |
| 997 | 279 | 149 | 19 | | 13 | |
| 998 | 278 | 148 | 19 | 98 | 13 | |
| 999 | 277 | 147 | 19 | 98 | 13 | |
| 000 | 276 | 147 | 19 | 98 | 13 | |
| 001 | 276 | 147 | 19 | 98 | 13 | |
| 002 | 278 | 148 | 19 | 99 | 12 | |
| 003 | 279 | 148 | 18 | 100 | 12 | |
| 004 | 281 | 150 | 18 | 101 | 12 | |
| 005 | 282 | 150 | 18 | 101 | 12 | |
| 006 | 282 | 150 | 18 | 102 | 12 | |
| | 202 | | h alternative projecti | | 12 | |
| 005 | 225 | 179 | | | 12 | |
| 995 | 325 | | 20 | 113 | 13 | |
| 996 | 332 | 182 | 20 | 116 | 13 | |
| 997 | 335 | 182 | . 20 | 119 | 14 | |
| 998 | 341 | 187 | 20 | 121 | 14 | |
| 999 | 350 | 191 | 20 | 125 | 14 | |
| 000 | 361 | 196 | 20 | 131 | 14 | |
| 001 | 370 | 205 | 20 | 132 | 14 | |
| 002 | 379 | 212 | 20 | 133 | 14 | |
| 003 | 386 | 218 | 20 | 134 | 14 | |
| 004 | 394 | 226 | 20 | 135 | 14 | |
| 005 | | | 20 | | | |
| | 402 | 233 | | 135 | 14 | |
| 006 | 408 | 239 | 20 | 136 | 14 | |

Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 21.—First-professional enrollment in public institutions, by sex and attendance status, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| •, | m . 1 | M | (en | Women | |
|------|-------|-----------|------------------------|-----------|-----------|
| Year | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 112 | 75 | 3 | 33 | 2 |
| 982 | 113 | 73 | 3 | 35 | 2 |
| 983 | 113 | 71 | 3 | 37 | 2 |
| 84 | 114 | 70 | 3 | 38 | 2 |
| 85 | 111 | 69 | 3 | 38 | 2 |
| | 112 | 67 | 3 | 39 | 2 |
| 86 | | | • | | 2 |
| 87 | 110 | 65 | 3 | 40 | |
| 88 | 109 | 64 | 2 | 41 | 2 |
| 89 | 113 | 65 | 2 | 43 | 2 |
| 90 | 112 | 63 | 3 | 44 | 2 |
| 91 | 111 | 62 | 3 | 45 | 2 |
| 92 | 111 | 61 | 3 | 45 | 2 |
| 93 | 114 | 61 | 3 | 47 | 3 |
| 94 * | 119 | 67 | 3 | 47 | 2 |
| Z7 | 112 | | lle alternative projec | | - |
| 95 | 120 | 67 | 3 | 47 | 3 |
| 96 | 122 | 69 | 3 | 48 | 3 |
| 97 | 124 | 70 | 3 | 48 | 3 |
| 98 | 127 | 70 71 | 3 | 49 | 3 |
| | | | | | 3 |
| 99 | 131 | 75 | 3 | 51 | |
| 00 | 133 | 76 | 3 | 52 | 3 |
| 01 | 134 | 76 | 3 | 52 | 3 |
| 02 | 135 | 77 | 3 | 53 | 3 |
| 03 | 136 | 77 | 3 | 53 | 3 |
| 04 | 138 | 78 | 3 | 54 | 3 |
| 05 | 138 | 78 | 3 | 54 | 3 |
| 06 | 139 | 79 | 3 | 55 | 3 |
| | 139 | | v alternative projecti | | 3 |
| 95 | 113 | 62 | 3 | 45 | 2 |
| 96 | 111 | 61 | 3 | 44 | 2 |
| 97 | 110 | 60 | 3 | 44 | 2 |
| | | | 3 | 44 | 2 |
| 998 | 110 | 60 | - | | 2 |
| 99 | 109 | 60 | 3 | 44 | _ |
| 000 | 109 | 60 | 3 | 44 | 2 |
| 001 | 109 | 60 | 3 | 44 | 2 |
| 002 | 110 | 60 | 3 | 44 | 2 |
| 003 | 110 | 60 | 3 | 45 | 2 |
| 004 | 111 | 61 | 3 | 45 | 2 |
| 005 | 112 | 61 | 3 | 45 | 2 |
| 006 | 112 | 61 | 3 | 45 | 2 |
| | 112 | | h alternative project | | 2 |
| 95 | 129 | 72 | 4 | 50 | 3 |
| | 132 | 74 | 4 | 52 | 3 |
| 96 | | | | | 3 |
| 97 | 133 | 74 | 4 | 53 | 3 |
| 98 | 136 | 76 | 4 | 54 | 3 |
| 99 | 140 | 77 | . 4 | 56 | 3 |
| 000 | 144 | 80 | 3 | 59 | 3 |
| 001 | 148 | 83 | 3 | 59 | 3 |
| 002 | 152 | 86 | 4 | 59 | 3 |
| 003 | 154 | 89 | 4 | 60 | 3 |
| 004 | | 92 | 1 | 60 | 3 |
| | 158 | | 4 | | |
| 005 | 161 | 94 | 3 | 60 | 3 |
| 006 | 164 | 97 | 4 | 61 | 3 |

Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 22.—First-professional enrollment in private institutions, by sex and attendance status, with alternative projections: 50 states and D.C., fall 1981 to fall 2006

| Year | Tot-1 | М | en W | | /omen |
|-------|-------|-----------|------------------------------|-----------|-----------|
| 1 car | Total | Full-time | Part-time | Full-time | Part-time |
| 981 | 162 | 101 | 14 | 40 | 7 |
| 982 | 165 | 101 | 14 | 43 | 7 |
| 983 | 165 | 97 | 16 | 44 | 8 |
| 984 | 164 | 96 | 16 | 43 | 8 |
| 985 | 162 | 93 | 14 | 46 | 8 |
| 986 | 158 | 91 | 12 | 48 | 7 |
| 87 | 158 | 88 | 14 | 48 | . , |
| 88 | 158 | 87 | 14 | 49 | Q |
| 89 | 162 | 87 | 14 | 52 | 0 |
| 90 | 162 | 86 | 15 | 52 | 9 |
| 91 | 169 | 90 | 15 | 55 | 9 |
| 92 | 170 | 90 | 15 | 56 | 9 |
| 93 | 179 | 93 | 16 | | _ |
| 94 * | 182 | 98 | 16 | 59 50 | 11 |
| | 102 | | 10 le alternative project | 58 | 10 |
| 95 | 183 | 99 | le alternative project | | . 10 |
| 96 | 186 | 101 | | 58 | 10 |
| 97 | 188 | 102 | 16 | 59 | 10 |
| 98 | 192 | | 16 | 60 | 10 |
| 99 | | 105 | 16 | 61 | 10 |
| 00 | 199 | 109 | 16 | 63 | 10 |
| 01 | 202 | 111 | 16 | 64 | 10 |
| | 202 | 111 | 16 | 65 | 10 |
| 02 | 204 | 112 | 16 | 65 | 10 |
| 03 | 205 | 113 | 16 | 66 | 10 |
| 04 | 207 | 114 | 16 | 67 | 10 |
| 05 | 208 | 114 | 16 | 68 | 10 |
| 06 | 209 | 115 | 16 | 68 | 10 |
| | | Low | alternative projection | ns | |
| 95 | 172 | 91 | 16 | 56 | 10 |
| 96 | 170 | 89 | 16 | 55 | 10 |
| 97 | 169 | 88 | 16 | 55 | 10 |
| 98 | 168 | 88 | 16 | 54 | 10 |
| 99 | 168 | 88 | 16 | 54 | 10 |
| 00 | 167 | 87 | 15 | 54 | 10 |
| 01 | 167 | 87 | 15 | 54 | 10 |
| 02 | 168 | 88 | 15 | 55 | 10 |
| 03 | 169 | 88 | 15 | 55 | 10 |
| 04 | 170 | 89 | 15 | 56 | _ |
| 05 | 170 | 89 | 15 | | 10 |
| 06 | 170 | 89 | 15 | 56 | 10 |
| | 170 | | alternative projectio | 56 | 10 |
| 95 | 196 | 106 | 17 | 62 | 1.1 |
| 96 | 200 | 108 | 17 | | 11 |
| 7 | 202 | 108 | 17 | 64 | 11 |
| 8 | 205 | 111 | | 66 | 11 |
| 9 | 211 | | 17 | 67 | 11 |
| 0 | | 113 | 17 | 69 | 11 |
| 01 | 217 | 117 | 17 | 73 | 11 |
| | 222 | 122 | 16 | 73 | 11 |
| 02 | 227 | 126 | 17 | 73 | 11 |
| 03 | 231 | 130 | 17 | 74 | 11 |
|)4 | 236 | 134 | 17 | 75 | 11 |
| 05 | 241 | 138 | 17 | 75 | 11 |
| 06 | 245 | 142 | 17 | 75 | 11 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 23.—Full-time-equivalent enrollment in all institutions of higher education, by level of student and type of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | | Underg | raduate | Graduate | First-professional 4-year |
|--------|---------|--------|---------------------------------------|----------|---------------------------|
| | Total | 4-year | 2-year | 4-year | |
| 1981 | 9,015 | 5,188 | 2,765 | 801 | 262 |
| 1982 | 9,092 | 5,194 | 2,843 | 790 | 266 |
| 1983 | 9,166 | 5,254 | 2,841 | 805 | 266 |
| 1984 | 8,952 | 5,215 | 2,659 | 814 | 263 |
| 1985 | 8,943 | 5,204 | 2,649 | 829 | 261 |
| 1986 | 9,064 | 5,241 | 2,704 | 859 | 259 |
| 1987 | 9,230 | 5,363 | 2,743 | 868 | 256 |
| | 9,467 | 5,517 | 2,800 | 892 | 256 |
| 1988 | • | 5,628 | 2,967 | 922 | 265 |
| 1989 | 9,781 | | • | 963 | 261 |
| 1990 | 9,984 | 5,744 | 3,016 | | 267 |
| 1991 | 10,361 | 5,804 | 3,280 | 1,010 | |
| 1992 | 10,436 | 5,822 | 3,308 | 1,036 | 270 |
| 1993 | 10,352 | 5,785 | 3,230 | 1,057 | 279 |
| 1994 * | 10,179 | 5,667 | 3,157 | 1,068 | 288 |
| | | Midd | lle alternative proje | ctions | |
| 1995 | 10,286 | 5,725 | 3,196 | 1,075 | 290 |
| 1996 | 10,457 | 5,817 | 3,255 | 1,089 | 295 |
| 1997 | 10,638 | 5,930 | 3,310 | 1,100 | 298 |
| 1998 | 10,908 | 6,096 | 3,392 | 1,116 | 305 |
| 1999 | 11,213 | 6,273 | 3,479 | 1,144 | 316 |
| | 11,457 | 6,434 | 3,545 | 1,157 | 321 |
| 2000 | • | · · | 3,585 | 1,159 | 322 |
| 2001 | 11,614 | 6,547 | · · · · · · · · · · · · · · · · · · · | • | 325 |
| 2002 | 11,733 | 6,633 | 3,608 | 1,167 | |
| 2003 | 11,860 | 6,723 | 3,637 | 1,171 | 327 |
| 2004 | 11,993 | 6,809 | 3,674 | 1,179 | 331 |
| 2005 | 12,123 | 6,899 | 3,707 | 1,185 | 333 |
| 2006 | 12,272 | 7,001 | 3,745 | 1,191 | 335 |
| | | Lov | w alternative project | tions | |
| 1995 | 9,906 | 5,519 | 3,089 | 1,027 | 271 |
| 1996 | 9,926 | 5,536 | 3,104 | 1,019 | 268 |
| 1997 | 9,996 | 5,590 | 3,127 | 1,014 | 266 |
| 1998 | 10,137 | 5,694 | 3,170 | 1,009 | 264 |
| 1999 | 10,265 | 5,789 | 3,205 | 1,007 | 264 |
| | 10,384 | 5,884 | 3,233 | 1,004 | 263 |
| 2000 | • | • | 3,258 | 1,002 | 263 |
| 2001 | 10,486 | 5,964 | | 1,002 | 265 |
| 2002 | 10,534 | 6,002 | 3,263 | • | 266 |
| 2003 | 10,602 | 6,054 | 3,276 | 1,006 | |
| 2004 | 10,669 | 6,098 | 3,294 | 1,009 | 268 |
| 2005 | 10,719 | 6,135 | 3,304 | 1,011 | 269 |
| 2006 | 10,792 | 6,191 | 3,321 | 1,010 | 269 |
| | | Hig | h alternative projec | tions | |
| 1995 | 10,757 | 5,965 | 3,341 | 1,141 | 310 |
| 1996 | 11,018 | 6,108 | 3,430 | 1,163 | 317 |
| 1997 | 11,253 | 6,253 | 3,505 | 1,175 | 321 |
| 1998 | 11,579 | 6,460 | 3,601 | 1,191 | 327 |
| 1999 | 11,955 | 6,692 | 3,711 | 1,217 | 336 |
| | 12,373 | 6,951 | 3,828 | 1,247 | 347 |
| 2000 | | | | · | 356 |
| 2001 | 12,604 | 7,098 | 3,886 | 1,265 | |
| 2002 | 12,783 | 7,201 | 3,929 | 1,288 | 364 |
| 2003 | 12,942 | 7,302 | 3,967 | 1,302 | 371 |
| 2004 | 13,109 | 7,395 | 4,013 | 1,321 | 380 |
| 2005 | 13,242 | 7,472 | 4,046 | 1,337 | 387 |
| 2006 | 13,427 | 7,585 | 4,096 | 1,352 | 394 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 24.—Full-time-equivalent enrollment in public institutions of higher education, by level of student and type of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Year | Total | Underg | raduate | Graduate | First-professional | |
|-------|--------|--------|-----------------------|------------|--------------------|--|
| | Total | 4-year | 2-year | 4-year | 4-year | |
| 1981 | 6,781 | 3,575 | 2,573 | 524 | 110 | |
| 1982 | 6,851 | 3,597 | 2,630 | 514 | 110 | |
| 1983 | 6,881 | 3,635 | 2,616 | 520 | iii | |
| 1984 | 6,685 | 3,605 | 2,447 | 521 | 111 | |
| 1985 | 6,668 | 3,601 | 2,428 | 529 | 110 | |
| 1986 | 6,778 | 3,629 | 2,483 | 556 | 110 | |
| 1987 | 6,938 | 3,731 | 2,542 | | | |
| 1988 | 7,097 | 3,827 | 2,592 | 557 571 | 108 | |
| 1989 | 7,372 | 3,921 | | | 107 | |
| 1990 | 7,558 | · | 2,752 | 587 | 112 | |
| 1991 | | 4,015 | 2,819 | 615 | 109 | |
| 1992 | 7,863 | 4,046 | 3,068 | 640 | 109 | |
| | 7,912 | 4,037 | 3,114 | 652 | 109 | |
| 1993 | 7,812 | 3,996 | 3,046 | 658 | 112 | |
| 994 * | 7,679 | 3,927 | 2,962 | 672 | 117 | |
| 2005 | | | le alternative projec | ctions | | |
| 995 | 7,761 | 3,967 | 2,999 | 677 | 118 | |
| 996 | 7,890 | 4,031 | 3,053 | 686 | 120 | |
| 997 | 8,027 | 4,109 | 3,104 | 692 | 122 | |
| 998 | 8,230 | 4,223 | 3,180 | 702 | 125 | |
| 999 | 8,456 | 4,346 | 3,260 | 720 | 129 | |
| 000 | 8,638 | 4,457 | 3,321 | 729 | 131 | |
| 001 | 8,756 | 4,535 | 3,359 | 730 | 132 | |
| 002 | 8,843 | 4,595 | 3,380 | | | |
| 003 | 8,936 | 4,657 | | 735 | 133 | |
| 004 | 9,035 | , | 3,407 | 738 | 134 | |
| 005 | • | 4,716 | 3,440 | 743 | 135 | |
| | 9,132 | 4,778 | 3,471 | 746 | 136 | |
| 006 | 9,243 | 4,849 | 3,507 | . 750 | 137 | |
| 205 | 7.400 | | alternative project | | | |
| 995 | 7,480 | 3,824 | 2,899 | 647 | 111 | |
| 996 | 7,499 | 3,836 | 2,913 | 641 | 109 | |
| 997 | 7,553 | 3,873 | 2,934 | 638 | 108 | |
| 998 | 7,662 | 3,945 | 2,974 | 635 | . 108 | |
| 999 | 7,758 | 4,010 | 3,006 | 634 | 107 | |
| 000 | 7,848 | 4,076 | 3,032 | 632 | 107 | |
| 001 | 7,924 | 4,131 | 3,054 | 631 | 107 | |
| 002 | 7,957 | 4,158 | 3,059 | 632 | 108 | |
| 003 | 8,007 | 4,194 | 3,071 | 633 | 108 | |
| 004 | 8,056 | 4,224 | 3,087 | 635 | 109 | |
| 005 | 8,093 | 4,250 | 3,097 | | | |
| 006 | 8,147 | 4,289 | · | 636 | 110 | |
| | 0,147 | · · | 3,113 | 636 | 110 | |
| 995 | 0 112 | | alternative project | | | |
| 996 | 8,112 | 4,133 | 3,134 | 718 | 127 | |
| 007 | 8,310 | 4,231 | 3,217 | 732 | 130 | |
| 997 | 8,488 | 4,331 | 3,286 | 740 | 131 | |
| 998 | 8,733 | 4,474 | 3,375 | 750 | 134 | |
| 999 | 9,015 | 4,634 | 3,477 | 766 | 137 | |
| 000 | 9,325 | 4,813 | 3,585 | 786 | 142 | |
| 001 | 9,496 | 4,915 | 3,638 | 797 | 146 | |
| 002 | 9,626 | 4,987 | 3,679 | 811 | 149 | |
| 003 | 9,742 | 5,057 | 3,714 | 820 | 152 | |
| 004 | 9,865 | 5,122 | 3,757 | 832 | 156 | |
| 005 | 9,962 | 5,174 | 3,787 | 842 | 159 | |
| 006 | 10,100 | 5,253 | 3,834 | | | |
| | | | | 852 | 162 | |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Table 25.—Full-time-equivalent enrollment in private institutions of higher education, by level of student and type of institution, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| | m-4-* | Underg | raduate | Graduate | First-professional 4-year |
|--------|-------|--------|-----------------------------|------------|---------------------------|
| Year | Total | 4-year | 2-year | 4-year | |
| 1981 | 2,233 | 1,612 | 192 | 277 | 152 |
| 1982 | 2,241 | 1,596 | 213 | 276 | 156 |
| 1983 | 2,285 | 1,619 | 226 | 285 | 155 |
| 1984 | 2,267 | 1,610 | 212 | 293 | 152 |
| 1985 | 2,276 | 1,603 | 221 | 300 | 151 |
| 1986 | 2,286 | 1,613 | 221 | 303 | 149 |
| 1987 | 2,292 | 1,632 | 201 | 311 | 148 |
| 1988 | 2,370 | 1,690 | 209 | 321 | 149 |
| 1989 | 2,409 | 1,707 | 216 | 335 | 153 |
| 1990 | 2,426 | 1,729 | 197 | 348 | 152 |
| | 2,498 | 1,758 | 212 | 370 | 158 |
| 1991 | 2,524 | 1,785 | 194 | 384 | 161 |
| 1992 | · | 1,789 | 184 | 399 | 167 |
| 1993 | 2,539 | | 195 | 396 | 170 |
| 1994 * | 2,501 | 1,740 | lle alternative proje | | 170 |
| 4005 | 2.525 | | ne alternative proje 197 | 398 | 171 |
| 1995 | 2,525 | 1,758 | | | 174 |
| 1996 | 2,566 | 1,786 | 202 | 404 | 177 |
| 1997 | 2,611 | 1,821 | 206 | 407 | = : : |
| 1998 | 2,679 | 1,872 | 212 | 413 | 180 |
| 1999 | 2,757 | 1,927 | 219 | 424 | 187 |
| 2000 | 2,819 | 1,977 | 224 | 429 | 190 |
| 2001 | 2,858 | 2,012 | 227 | 430 | 190 |
| 2002 | 2,891 | 2,038 | 228 | 432 | 192 |
| 2003 | 2,924 | 2,066 | 230 | 434 | 193 |
| 2004 | 2,958 | 2,093 | 233 | 437 | 195 |
| 2005 | 2,991 | 2,120 | 236 | 439 | 196 |
| 2006 | 3,029 | 2,152 | 238 | 441 | 198 |
| 2000 | 5,025 | | w alternative projec | tions | |
| 1995 | 2,426 | 1,695 | 190 | 381 | 161 |
| | 2,427 | 1,700 | 191 | 377 | 159 |
| 1996 | 2,443 | 1,717 | 193 | 376 | 158 |
| 1997 | | 1,749 | 196 | 374 | 157 |
| 1998 | 2,476 | · · | 199 | 373 | 156 |
| 1999 | 2,507 | 1,778 | | | 156 |
| 2000 | 2,537 | 1,808 | 201 | 372 | |
| 2001 | 2,562 | 1,832 | 203 | 371 | 156 |
| 2002 | 2,577 | 1,844 | 204 | 372 | 157 |
| 2003 | 2,595 | 1,860 | 205 | 373 | 157 |
| 2004 | 2,612 | 1,874 | 206 | 374 | 159 |
| 2005 | 2,626 | 1,885 | 207 | 374 | 159 |
| 2006 | 2,644 | 1,902 | 209 | 374 | 159 |
| | | Hig | sh alternative projec | ctions | |
| 1995 | 2,645 | 1,832 | 207 | 423 | 184 |
| 1996 | 2,708 | 1,876 | 213 | 431 | 188 |
| 1997 | 2,765 | 1,921 | 219 | 435 | 190 |
| 1998 | 2,846 | 1,986 | 226 | 441 | 193 |
| 1999 | 2,941 | 2,058 | 234 | 451 | 198 |
| 2000 | 3,047 | 2,138 | 243 | 462 | 205 |
| 2001 | 3,109 | 2,183 | 247 | 468 | 210 |
| | | 2,183 | 250 | 477 | 215 |
| 2002 | 3,156 | | 253 | 482 | 219 |
| 2003 | 3,200 | 2,245 | | 482 489 | 224 |
| 2004 | 3,244 | 2,274 | 257 | | |
| 2005 | 3,280 | 2,297 | 259 | 495 | 228 |
| 2006 | 3,328 | 2,332 | 263 | 501 | 232 |

^{*} Projected.

NOTE: Projections are based on data through 1993. Because of rounding, details may not add to totals.



Chapter 3

High School Graduates

The number of high school graduates is projected to increase over the projection period. This increase in the number of high school graduates reflects the overall change in the 18-year-old population during the same period (figure 29). Increases in the number of graduates are expected for both public and private schools.

The tabulations below provide the following information about trends in the number of high school graduates: (1) the average annual rate of change (in percent) for 1980–81 to 1993–94 and the projected growth rate for 1993–94 to 2005–2006 and (2) the rates of change for 1980–81 to 1987–88 and 1987–88 to 1993–94 and the projected growth rates for 1993–94 to 1999–2000 and 1999–2000 to 2005–2006.

Average annual rate of change (in percent)

| | 1980–81 to 1993–94 | Projected |
|-------------------|--------------------------|----------------------------|
| | | 1993–94 to 2005–2006 |
| Total | -1.4 | 1.6 |
| Public Private | -1.5 -1.0 | 1.6 1.6 |

Average annual rate of change (in percent)

| * | 1980–81 to 1987–88 | 1987–88 to 1993–94 | Projected | |
|-------------------|--------------------------|--------------------------|----------------------------|------------------------------|
| | | | 1993–94 to 1999–2000 | 1999–2000 to 2005–2006 |
| Total | -1.2 | -1.7 | 2.3 | 0.8 |
| Public Private | -1.2 -1.1 | -1.8 -0.9 | 2.3 2.3 | 0.8 0.9 |

Total High School Graduates

The number of high school graduates from public and private schools decreased from 3.0 million in 1980–81 to 2.6 million in 1985–86 (table 26 and figure 30). After 1985–86, this number increased to 2.8 million in 1987–

88. Then, it decreased to around 2.5 million in 1993–94, a decrease of 17 percent from 1980–81, or an average annual rate of decline of 1.4 percent. Over the projection period, the total number of high school graduates is expected to remain around 2.5 million in 1994–95. Thereafter, it is projected to rise to 3.0 million by 2005–2006, an increase of 21 percent from 1993–94, or an average annual growth rate of 1.6 percent. During the projection period, the growth rate will be higher in the first half of the projection period (1993–94 to 1999–2000) than the growth rate in the second half (1999–2000 to 2005–2006), 2.3 percent per year versus 0.8 percent per year.

High School Graduates, by Control of Institution

The number of graduates of public high schools decreased from 2.7 million in 1980–81 to 2.4 million in 1985–86 (figure 31). Then, it increased to 2.5 million in 1987–88 before declining to about 2.2 million in 1993–94, a decrease of 18 percent from 1980–81, or an average annual rate of decline of 1.5 percent. Over the projection period, public high school graduates are projected to increase to 2.7 million by 2005–2006, an increase of 21 percent from 1993–94, or an average annual growth rate of 1.6 percent. During the projection period, the growth rate will be higher in the first half of the projection period (1993–94 to 1999–2000) than the growth rate in the second half (1999–2000 to 2005–2006), 2.3 percent per year versus 0.8 percent per year (figure 32).

The number of graduates of private high schools is projected to increase from an estimated 258,000 in 1993–94 to 312,000 by 2005–2006, an increase of 21 percent, or an average annual growth rate of 1.6 percent. During the projection period, the growth rate will be higher in the first half of the projection period (1993–94 to 1999–2000) than the growth rate in the second half (1999–2000 to 2005–2006), 2.3 percent per year versus 0.9 percent per year.



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Figure 29 18-year-old population, with projections: 1981 to 2006

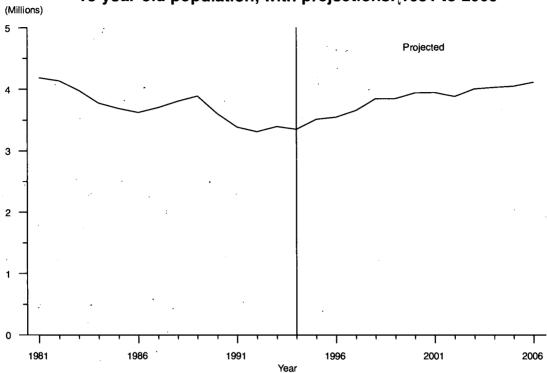


Figure 30 High school graduates, with projections: 1980-81 to 2005-2006

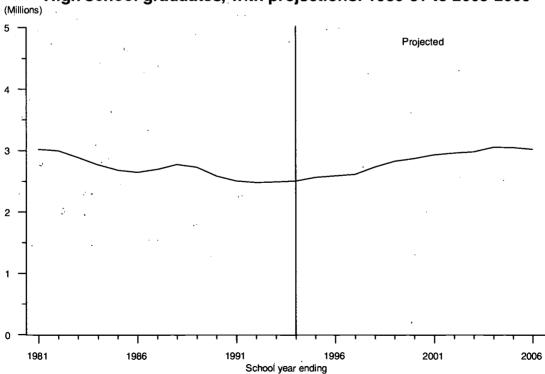




Figure 31
High school graduates, by control of institution, with projections: 1980-81 to 2005-2006

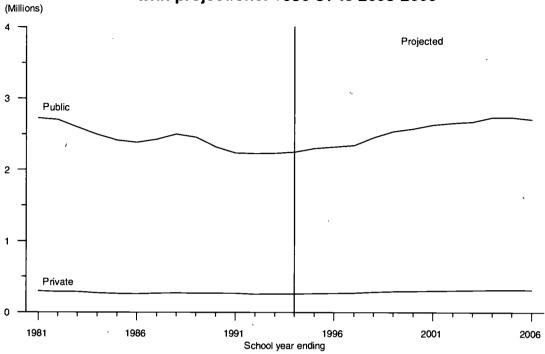


Figure 32
Average annual rates of change for high school graduates

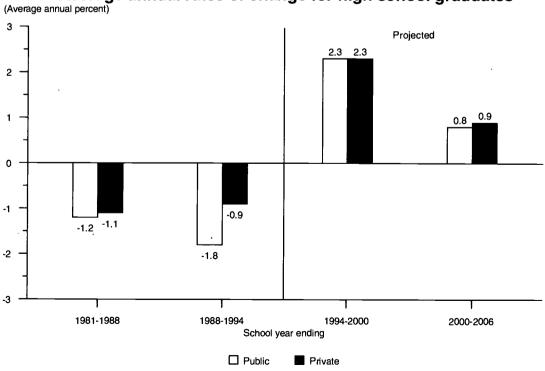




Table 26.—High school graduates, by control of institution, with projections: 50 States and D.C., 1980–81 to 2005–2006

| Year ending | Total | Public | Private |
|-------------|-------|-----------|---------|
| 1981 | 3,020 | 2,725 | 295 |
| 1982 | 2,995 | 2,705 | 290 |
| 1983 | 2,888 | 2,598 | 290 |
| 1984 | 2,767 | 2,495 | 272 |
| 985 | 2,677 | 2,414 | 263 |
| 986 | 2,643 | 2,383 | 260 |
| 987 | 2,694 | 2,429 | 265 |
| 988 | 2,773 | 2,500 | 273 |
| 989 | 2,727 | 2,459 | 268 |
| 1990 | 2,586 | 2,320 | 266 |
| 991 | 2,503 | 2,235 | 268 |
| 992 | 2,482 | 2,226 | 256 |
| 993 | 2,490 | 2,233 | 1257 |
| 9941 | 2,505 | 2,247 | 258 |
| | | Projected | |
| 1995 | 2,564 | 2,300 | 264 |
| 996 | 2,588 | 2,321 | 267 |
| 997 | 2,612 | 2,343 | 269 |
| 1998 | 2,734 | 2,452 | 282 |
| 1999 | 2,828 | 2,536 | 292 |
| 2000 | 2,873 | 2,577 | 296 |
| 2001 | 2,933 | 2,631 | 302 |
| | 2,961 | 2,655 | 305 |
| 2003 | 2,981 | 2,673 | 307 |
| | 3,054 | 2,739 | 315 |
| 2005 | 3,051 | 2,736 | 315 |
| 2006 | 3,022 | 2,710 | 312 |

¹ Projected.

NOTE: Prior to 1989–90, numbers for private high school graduates were estimated by NCES. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; "Private Elementary and Secondary Education, 1983: Enrollment, Teachers, and Schools," NCES Bulletin, December 1984; 1985 Private School Survey; "Key Statistics for Private Elementary and Secondary Education: School Year 1988–89," Early Estimates; "Key Statistics for Private Elementary and Secondary Education: School Year 1990–91," Early Estimates; Public and Private Elementary and Secondary Education Statistics: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1992–93," Early Estimates. (This table was prepared September 1995.)



Chapter 4

Earned Degrees Conferred

The historical growth in enrollment of women in institutions of higher education led to an increase in the number of earned degrees conferred. Between 1980–81 and 1993–94, the number of degrees awarded to women rose at all levels. In 1993–94, women earned the majority of associate, bachelor's, and master's degrees, and nearly two-fifths of doctor's and first-professional degrees. Over the projection period, the number of degrees awarded to women will continue to rise at most levels. With the exception of doctor's degrees, the number of degrees awarded to men will increase over the projection period.

Three alternative projections of earned degrees by level and sex were developed. In general, the number of degrees was related to college-age populations and higher education enrollment by level enrolled and attendance status.

Associate Degrees

Between 1980-81 and 1982-83, the number of associate degrees increased from 416,000 to 456,000. Thereafter, it decreased to 435,000 in 1987-88. Since then, it increased to an estimated 531,000 in 1993-94 (table 27 and figure 33). Under the middle alternative, this number is expected to increase to 584,000 by 2005-2006, an increase of 10 percent from 1993-94. Under the low alternative, the number of associate degrees is projected to increase to 536,000 by 2005-2006. Under the high alternative, associate degrees are projected to increase to 635,000 by 2005-2006. The number of associate degrees awarded to men increased from 189,000 in 1980-81 to 207,000 in 1982-83 and then decreased to 186,000 in 1988-89, before rising to an estimated 217,000 in 1993-94 (figure 34). Under the middle alternative, this number is projected to decrease to 208,000 in 1996-97 and then increase to 224,000 by 2005-2006, an increase of 3 percent from 1993-94. Under the low alternative, the number of associate degrees awarded to men is projected to decrease to 210,000 by 2005-2006. Under the high alternative, associate degrees awarded to men are projected to increase to 232,000 by 2005-2006. The number of associate degrees awarded to women increased from 228,000 in 1980-81 to 314,000 in 1993-94, an increase of 38 percent. Under the middle alternative, this number is projected to increase to 360,000 by 2005-2006, an increase of 15 percent from 1993-94. Under the low alternative, the number of associate degrees awarded to women is projected to increase to 326,000 by 2005-2006. Under the high alternative, associate degrees awarded to women are projected to increase to 403,000 by 2005-2006.

Bachelor's Degrees

The number of bachelor's degrees increased from 935,000 in 1980-81 to an estimated 1,182,000 in 1993-94, an increase of 26 percent (table 28 and figure 35). Under the middle alternative, this number is expected to rise to 1,195,000 in 1995–96, decrease slightly to 1,173,000 in 1997-98, and then increase to 1,316,000 by 2005-2006, an increase of 11 percent from 1993-94. Under the low alternative, the number of bachelor's degrees is projected to increase to 1,188,00 by 2005-2006. Under the high alternative, bachelor's degrees are projected to increase to 1,438,000 by 2005-2006. The number of bachelor's degrees awarded to men increased from 470,000 in 1980-81 to 486,000 in 1985-86 and declined for two more years, before rising to an estimated 535,000 in 1993-94 (figure 36). Under the middle alternative, this number is expected to increase to 591,000 by 2005-2006, an increase of 10 percent from 1993-94. Under the low alternative, the number of bachelor's degrees awarded to men is projected to decrease to 531,00 by 2005-2006. Under the high alternative, bachelor's degrees awarded to men are projected to increase to 616,000 by 2005-2006. The number of bachelor's degrees awarded to women increased from 465,000 in 1980-81 to an estimated 647,000 in 1993-94, an increase of 39 percent. Under the middle alternative, this number is expected to increase to 725,000 by 2005-2006, an increase of 12 percent from 1993-94. Under the low alternative, the number of bachelor's degrees awarded to women is projected to increase to 657,00 by 2005-2006. Under the high alternative, bachelor's degrees awarded to women are projected to increase to 821,000 by 2005-2006.

Master's Degrees

The number of master's degrees decreased from 296,000 in 1980–81 to 284,000 in 1983–84, before rising to an estimated 391,000 in 1993–94, an increase of 38 percent from 1983–84 (table 29 and figure 37). Under the middle alternative, this number is expected to increase to 462,000 by 2005–2006. Under the low alternative, the number of master's degrees is projected to increase to 411,00 by 2005–2006. Under the high alternative, bachelor's degrees are projected to increase to 490,000 by 2005–2006. The number of master's degrees awarded to men decreased from 147,000 in 1980–81 to 141,000 in 1986–87. Then, it increased to an estimated 186,000 in 1993–94 (figure



75 53

38). Under the middle alternative, this number is projected to increase to 212,000 by 2005–2006. Under the low alternative, the number of master's degrees awarded to men is projected to decrease to 171,00 by 2005–2006. Under the high alternative, master's degrees awarded to men are projected to increase to 230,000 by 2005–2006. The number of master's degrees awarded to women decreased from 149,000 in 1980–81 to 141,000 in 1983–84. Since then, it increased to an estimated 205,000 in 1993–94. Under the middle alternative, this number is expected to increase to 250,000 by 2005–2006. Under the low alternative, the number of master's degrees awarded to women is projected to increase to 240,000 by 2005–2006. Under the high alternative, master's degrees awarded to women are projected to increase to 260,000 by 2005–2006.

Doctor's Degrees

The number of doctor's degrees increased from 33,000 in 1980-81 to about 41,900 in 1993-94, an increase of 27 percent (table 30 and figure 39). Under the middle alternative, this number is expected to increase to 46,200 in 2000-2001 and then decrease to 43,200 by 2005-2006. Under the low alternative, the number of doctor's degrees is projected to decrease to 35,000 by 2005-2006. Under the high alternative, doctor's degrees are projected to increase to 50,900 by 2005-2006. The number of doctor's degrees awarded to men decreased from 22,700 in 1980-81 to 21,900 in 1982-83. Then, it increased to 22,100 in 1983-84 before decreasing to 21,700 in 1984-85. Thereafter, it increased to an estimated 26,000 in 1993-94. Under the middle alternative, this number is expected to fall to 21,800 by 2005-2006, a decrease of 16 percent from 1993-94 (figure 40). Under the low alternative, the number of doctor's degrees awarded to men is projected to decrease to 13,800 by 2005-2006. Under the high alternative, doctor's degrees awarded to men are projected to increase to 29,300 by 2005-2006. The number of doctor's degrees awarded to women rose from 10,200 in 1980-81 to an estimated 15,800 in 1993-94, an increase of 54 percent. Over the projection period, this pattern is expected to continue. Under the middle alternative, the number of doctor's degrees awarded to women is projected to climb to 21,400 by 2005-2006, an increase of 35 percent from 1993–94. Under the low alternative, the number of doctor's degrees awarded to women is projected to increase to 21,200 by 2005–2006. Under the high alternative, doctor's degrees awarded to women are projected to increase to 21,600 by 2005–2006. The share of doctor's degrees awarded to women, which was 31 percent in 1980–81 and 38 percent in 1993–94, is projected to climb to 50 percent by 2005–2006.

First-Professional Degrees

The number of first-professional degrees awarded rose from 72,000 in 1980-81 to 75,100 in 1984-85. Then, it decreased to 70,700 in 1987-88. Thereafter, it increased to 76,000 in 1993-94 (table 31 and figure 41). Under the middle alternative, this number is expected to increase to 91,700 by 2005-2006. Under the low alternative, the number of first-professional degrees is projected to decrease to 75,200 by 2005-2006. Under the high alternative, firstprofessional degrees are projected to increase to 103,300 by 2005-2006. The number of first-professional degrees awarded to men decreased from 52,800 in 1980-81 to about 43,800 in 1990-91 (figure 42). Then, it increased to an estimated 45,400 in 1993-94. Under the middle alternative, this number is projected to increase to 55,200 by 2005-2006. Under the low alternative, the number of first-professional degrees awarded to men is projected to decrease to 44,400 by 2005-2006. Under the high alternative, first-professional degrees awarded to men are projected to increase to 62,700 by 2005-2006. The number of first-professional degrees awarded to women increased from 19,200 in 1980-81 to an estimated 30,600 in 1993-94, an increase of 60 percent. Under the middle alternative, this number is expected to increase to 36,500 by 2005-2006, an increase of 19 percent from 1993-94. Under the low alternative, the number of first-professional degrees awarded to women is projected to increase to 30,800 by 2005-2006. Under the high alternative, first-professional degrees awarded to men are projected to increase to 40,600 by 2005-2006. The women's proportion of first-professional degrees rose from 27 percent in 1980-81 to 40 percent in 1993-94. By 2005-2006, this proportion is expected to remain at 40 percent.



Figure 33
Associate degrees, with alternative projections: 1980-81 to 2005-2006 (Thousands)

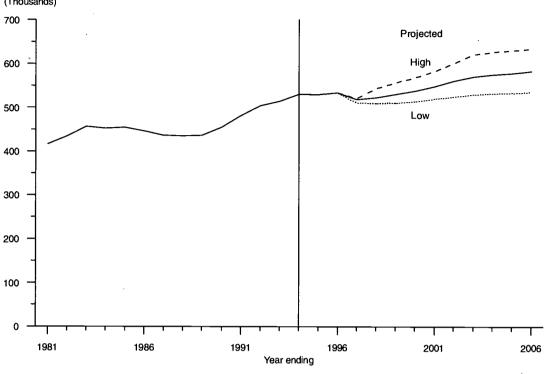


Figure 34
Associate degrees, by sex of recipient,
with middle alternative projections: 1980-81 to 2005-2006

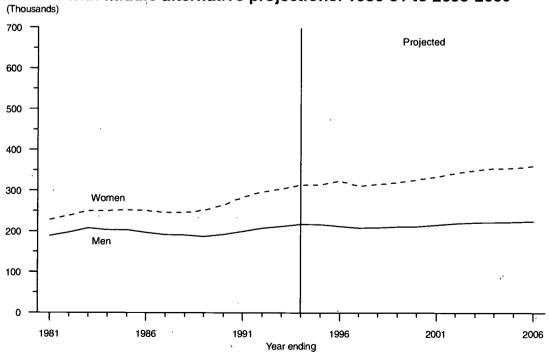




Figure 35
Bachelor's degrees, with alternative projections: 1980-81 to 2005-2006

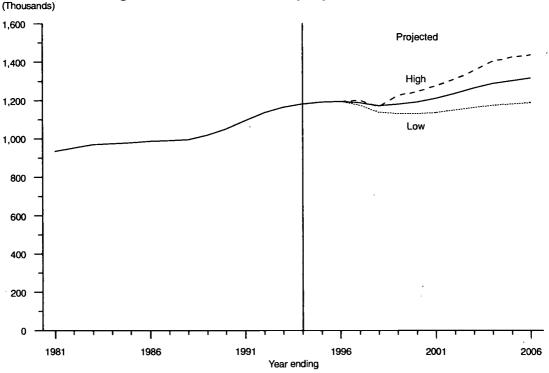


Figure 36

Bachelor's degrees, by sex of recipient,
with middle alternative projections: 1980-81 to 2005-2006

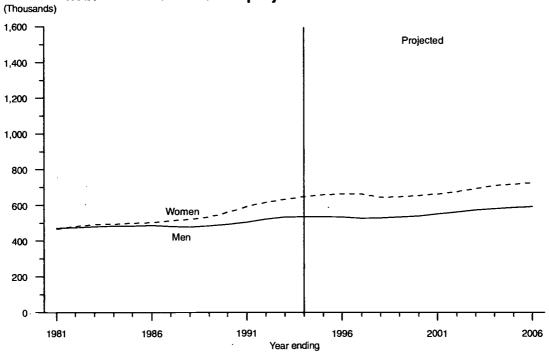




Figure 37
Master's degrees, with alternative projections: 1980-81 to 2005-2006 (Thousands)

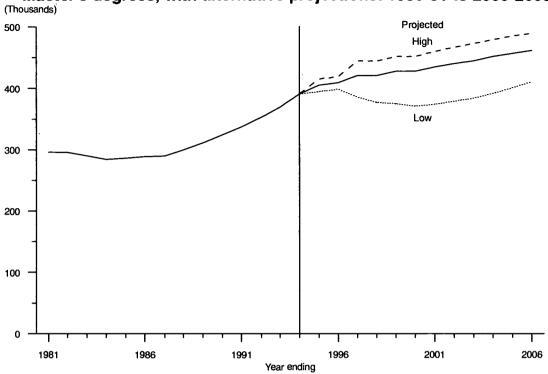


Figure 38

Master's degrees, by sex of recipient
with middle alternative projections: 1980-81 to 2005-2006

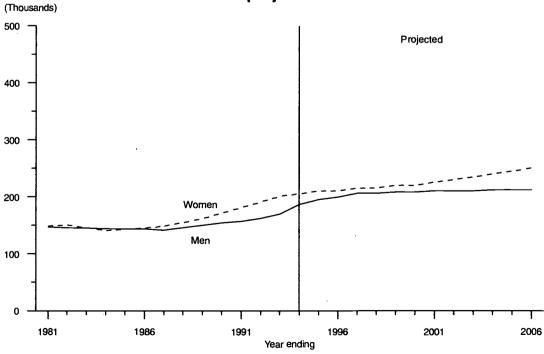




Figure 39
Doctor's degrees, with alternative projections: 1980-81 to 2005-2006

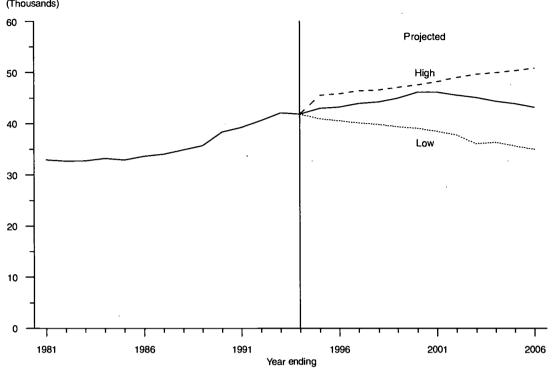


Figure 40

Doctor's degrees, by sex of recipient,
with middle alternative projections: 1980-81 to 2005-2006

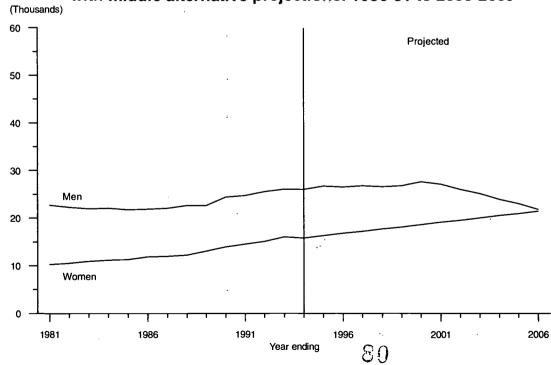




Figure 41
First-professional degrees, with alternative projections: 1980-81 to 2005-2006

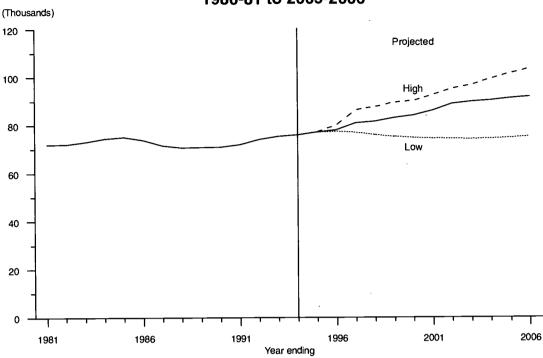


Figure 42
First-professional degrees, by sex of recipient,
with middle alternative projections: 1980-81 to 2005-2006

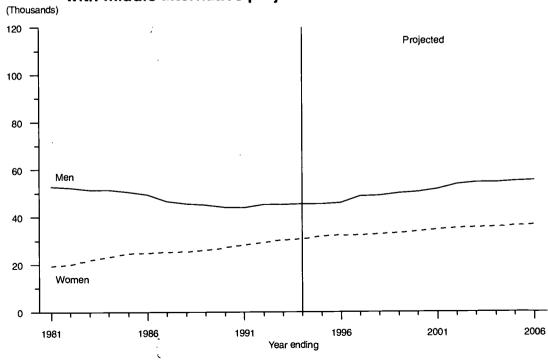




Table 27.—Associate degrees, by sex of recipient, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| Year ending | Total | Men | Women |
|-------------|---------|--------------------------------|---------|
| 1981 | 416,377 | 188,638 | 227,739 |
| 1982 | 434,515 | 196,939 | 237,576 |
| 1983 | 456,441 | 207,141 | 249,300 |
| 1984 | 452,416 | 202,762 | 249,654 |
| 1985 | 454,712 | 202,932 | 251,780 |
| 1986 | 446,047 | 196,166 | 249,881 |
| 1987 | 436,308 | 190,842 | 245,466 |
| 1988 | 435,085 | 190,047 | 245,038 |
| 1989 | 436,764 | 186,316 | 250,448 |
| 1990 | 455,102 | 191,195 | 263,907 |
| 1991 | 481,720 | 198,634 | 283,086 |
| 1992 | 504,231 | 207.481 | , |
| 1993 | 514,756 | 211.964 | 296,750 |
| 1994 * | 531,000 | • | 302,792 |
| 1774 | 331,000 | 217,000 | 314,000 |
| 1005 | 520,000 | Middle alternative projections | |
| 1995 | 530,000 | 216,000 | 314,000 |
| 1996 | 534,000 | 212,000 | 323,000 |
| 1997 | 519,000 | 208,000 | 311,000 |
| 1998 | 523,000 | 209,000 | 315,000 |
| 1999 | 531,000 | 211,000 | 320,000 |
| 2000 | 538,000 | 212,000 | 326,000 |
| 2001 | 549,000 | 215,000 | 334,000 |
| 2002 | 561,000 | 219,000 | 343,000 |
| 2003 | 571,000 | 221,000 | 350,000 |
| 2004 | 576,000 | 222,000 | 354,000 |
| 2005 | 579,000 | 223,000 | 356,000 |
| 2006 | 584,000 | 224,000 | 360,000 |
| | | Low alternative projections | |
| 1995 | 530,000 | 216,000 | 314,000 |
| 1996 | 534,000 | 212,000 | 323,000 |
| 1997 | 511,000 | 205,000 | 306,000 |
| 998 | 510,000 | 204,000 | 305,000 |
| 999 | 511,000 | 204,000 | 307,000 |
| 2000 | 514,000 | 205,000 | 309,000 |
| 2001 | 520,000 | 206,000 | 314,000 |
| 2002 | 525,000 | 208,000 | 318,000 |
| 2003 | 530,000 | 209,000 | 321,000 |
| 2004 | 533,000 | 210.000 | 324,000 |
| 2005 | 534,000 | 210,000 | 324,000 |
| 2006 | 536,000 | 210,000 | 326,000 |
| | , | High alternative projections | 320,000 |
| 995 | 530,000 | 216.000 | 314,000 |
| 996 | 534,000 | 212,000 | 323,000 |
| 997 | 521,000 | 213,000 | 308,000 |
| 998 | 544.000 | 213,000 | 330,000 |
| 999 | 557,000 | 215,000 | 342,000 |
| 2000 | 569,000 | 216,000 | • |
| 2001 | 583,000 | 219,000 | 353,000 |
| 2002 | 601.000 | • | 364,000 |
| 2003 | 621,000 | 221,000 | 380,000 |
| 2004 | , | 224,000 | 397,000 |
| | 627,000 | 227,000 | 400,000 |
| 2005 | 631,000 | 230,000 | 401,000 |
| 2006 | 635,000 | 232,000 | 403,000 |

^{*} Projected.

NOTE: Projections are based on data through 1992-93. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared November 1995.)



Table 28.—Bachelor's degrees, by sex of recipient, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| | Year ending | Total | Men | Women |
|------|---|-----------|---------------------------------------|---------|
| 1981 | | 935,140 | 469,883 | 465,257 |
| 1982 | | 952,998 | 473,364 | 479,634 |
| 983 | | 969,510 | 479,140 | 490,370 |
| 984 | | 974,309 | 482,319 | 491,990 |
| | | 979,477 | 482,528 | 496,949 |
| | | 987,823 | 485,923~ | 501,900 |
| | | 991,264 | 480,782 | 510,482 |
| | | 994,829 | 477,203 | 517,626 |
| | | 1,018,755 | 483,346 | 535,409 |
| | | 1,051,344 | 491,696 | 559,648 |
| | | 1,094,538 | 504,045 | 590,493 |
| | | 1,136,553 | 520,811 | 615,742 |
| | | 1,165,178 | 532,881 | |
| | | 1,182,000 | 535,000 | 632,297 |
| 994 | | 1,182,000 | , | 647,000 |
| 005 | | 1 100 000 | Middle alternative projections | |
| | | 1,192,000 | 535,000 | 657,000 |
| | | 1,195,000 | 533,000 | 663,000 |
| | | 1,188,000 | 526,000 | 663,000 |
| | •••••• | 1,173,000 | 529,000 | 644,000 |
| | | 1,180,000 | 534,000 | 646,000 |
| .000 | | 1,191,000 | 539,000 | 652,000 |
| 001 | | 1,211,000 | 550,000 | 661,000 |
| .002 | | 1,237,000 | 561,000 | 675,000 |
| 003 | | 1,264,000 | 572,000 | 692,000 |
| 004 | | 1,288,000 | 580,000 | 708,000 |
| 005 | | 1,302,000 | 585,000 | 717,000 |
| 006 | | 1,316,000 | 591,000 | 725,000 |
| | | 1,510,000 | Low alternative projections | 725,000 |
| 995 | | 1,192,000 | 535,000 | 657,000 |
| | | 1,195,000 | 533,000 | 663,000 |
| | | 1,176,000 | 513,000 | 663,000 |
| | | 1,140,000 | 510,000 | 630,000 |
| | | | · · · · · · · · · · · · · · · · · · · | , |
| | | 1,132,000 | 507,000 | 625,000 |
| | | 1,131,000 | 507,000 | 623,000 |
| | | 1,137,000 | 512,000 | 625,000 |
| | | 1,150,000 | 516,000 | 633,000 |
| | | 1,163,000 | 522,000 | 641,000 |
| | ······································ | 1,175,000 | 526,000 | 649,000 |
| | | 1,183,000 | 528,000 | 655,000 |
| 006 | | 1,188,000 | 531,000 | 657,000 |
| | | | High alternative projections | |
| 995 | *************************************** | 1,192,000 | 535,000 | 657,000 |
| 996 | | 1,195,000 | 533,000 | 663,000 |
| | | 1,202,000 | 539,000 | 663,000 |
| | | 1,167,000 | 542,000 | 626,000 |
| | | 1,225,000 | 545,000 | 680,000 |
| | | 1,246,000 | 548,000 | 698,000 |
| | | 1,275,000 | 558,000 | 718,000 |
| | | 1,310,000 | 568,000 | , |
| | | | , | 742,000 |
| | | 1,355,000 | 581,000 | 774,000 |
| | | 1,404,000 | 595,000 | 809,000 |
| | | 1,424,000 | 606,000 | 818,000 |
| | | 1,438,000 | 616,000 | 821,000 |

^{*} Projected.

NOTE: Projections are based on data through 1992-93. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared November 1995.)



Table 29.—Master's degrees, by sex of recipient, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| Year end | ing | Total | Men | Women |
|----------|-------|---------|---------------------------------------|---------|
| 1981 | | 295,739 | 147,043 | 148,696 |
| 1982 | | 295,546 | 145,532 | 150,014 |
| 1983 | | 289,921 | 144.697 | 145,224 |
| 984 | | 284,263 | 143,595 | 140,668 |
| 985 | | 286,251 | 143,390 | 142,861 |
| 986 | | 288.567 | 143,508 | 145.059 |
| 1987 | | 289,349 | 141,269 | 148,080 |
| 988 | | 299,317 | 145,163 | 154,154 |
| | | 310,621 | 149,354 | 161,267 |
| 989 | | • | · · · · · · · · · · · · · · · · · · · | • |
| 990 | | 324,301 | 153,653 | 170,648 |
| 991 | | 337,168 | 156,482 | 180,686 |
| 992 | | 352,838 | 161,842 | 190,996 |
| 993 | | 369,585 | 169,258 | 200,327 |
| 994 * | | 391,000 | 186,000 | 205,000 |
| | | | Middle alternative projections | |
| 995 | | 405,000 | 195,000 | 210,000 |
| 996 | | 409,000 | 199,000 | 210,000 |
| 997 | | 421,000 | 206,000 | 215,000 |
| 998 | | 421,000 | 206,000 | 215,000 |
| 999 | | 428,000 | 208,000 | 220,000 |
| 000 | | 428,000 | 208.000 | 220,000 |
| 001 | | 435,000 | 210,000 | 225,000 |
| 002 | | 440,000 | 210,000 | 230,000 |
| 003 | | 445,000 | 210,000 | 235,000 |
| 004 | | 452,000 | 212,000 | 240,000 |
| 005 | | 457,000 | 212,000 | 245,000 |
| | | , | 212,000 | |
| 006 | | 462,000 | • | 250,000 |
| 005 | | 205.000 | Low alternative projections | 200.000 |
| 995 | | 395,000 | 195,000 | 200,000 |
| 996 | | 399,000 | 199,000 | 200,000 |
| 997 | | 386,000 | 181,000 | 205,000 |
| 998 | | 377,000 | 172,000 | 205,000 |
| 999 | | 375,000 | 165,000 | 210,000 |
| 2000 | | 371,000 | 161,000 | 210,000 |
| .001 | | 374,000 | 159,000 | 215,000 |
| 2002 | | 379,000 | 159,000 | 220,000 |
| | | 384,000 | 159,000 | 225,000 |
| 2004 | | 392,000 | 162,000 | 230,000 |
| 2005 | | 401,000 | 166,000 | 235,000 |
| 006 | | 411,000 | 171,000 | 240,000 |
| | | 111,000 | High alternative projections | 210,000 |
| 995 | | 415,000 | 195,000 | 220,000 |
| 996 | | 419,000 | 199,000 | 220,000 |
| | | | 220,000 | |
| 997 | | 445,000 | , | 225,000 |
| 998 | | 445,000 | 220,000 | 225,000 |
| 999 | | 452,000 | 222,000 | 230,000 |
| 2000 | | 452,000 | 222,000 | 230,000 |
| 2001 | | 460,000 | 225,000 | 235,000 |
| 2002 | | 467,000 | 227,000 | 240,000 |
| 2003 | | 473,000 | 228,000 | 245,000 |
| 2004 | | 480,000 | 230,000 | 250,000 |
| 2005 | ••••• | 485,000 | 230,000 | 255,000 |
| 2006 | | 490,000 | 230,000 | 260,000 |

^{*} Projected.

NOTE: Projections are based on data through 1992–93. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared November 1995.)



Table 30.—Doctor's degrees, by sex of recipient, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| Year ending | Total | Men | Women |
|-------------|------------|--------------------------------|--------|
| 981 | 32,958 | 22,711 | 10,247 |
| 982 | 32,707 | 22,224 | 10,483 |
| 983 | • | 21,902 | 10,873 |
| 984 | · /· · · - | 22,064 | 11,145 |
| 985 | • | 21,700 | • |
| | • | • | 11,243 |
| 986 | • | 21,819 | 11,834 |
| 987 | , . | 22,061 | 11,980 |
| 988 | , | 22,615 | 12,255 |
| 989 | 35,720 | 22,648 | 13,072 |
| 990 | 38,371 | 24,401 | 13,970 |
| 91 | 39,294 | 24,756 | 14,538 |
| 992 | 40.659 | 25,557 | 15,102 |
| 93 | | 26,073 | 16.059 |
| 94* | • | 26,000 | 15,800 |
| Z7 | 41,500 | Middle alternative projections | 13,800 |
| 105 | 42,000 | 1 0 | 16 200 |
| 95 | | 26,700 | 16,300 |
| 96 | • | 26,500 | 16,800 |
| 97 | • | 26,800 | 17,200 |
| 998 | 44,300 | 26,600 | 17,700 |
| 99 | 45,000 | 26,800 | 18,100 |
| 000 | 46,200 | 27,600 | 18,600 |
| 01 | 46,200 | 27,100 | 19,100 |
| 002 | | 26,000 | 19,500 |
| 03 | • | 25,100 | 20,000 |
| 004 | • | 23,900 | • |
| | , | | 20,500 |
| 005 | | 23,000 | 20,900 |
| 006 | 43,200 | 21,800 | 21,400 |
| 205 | 44.000 | Low alternative projections | |
| 995 | | 24,900 | 16,100 |
| 996 | * | 24,000 | 16,600 |
| 997 | • | 23,200 | 17,000 |
| 998 | 39,900 | 22,400 | 17,500 |
| 999 | 39,400 | 21,500 | 17,900 |
| 000 | 39,100 | 20,700 | 18,400 |
| 001 | | 19,600 | 18,900 |
| 002 | | 18,500 | 19,300 |
| 003 | | 17,300 | 18,800 |
| 004 | | • | , |
| | | 16,100 | 20,300 |
| 005 | • | 15,000 | 20,700 |
| 06 | 35,000 | 13,800 | 21,200 |
| | | High alternative projections | |
| 95 | | 29,100 | 16,500 |
| 96 | 45,900 | 28,900 | 17,000 |
| 97 | 46.500 | 29.100 | 17,400 |
| 98 | 46,600 | 28,700 | 17,900 |
| 99 | | 28,800 | 18,300 |
| 00 | | 28,800 | · · |
| | | • | 18,800 |
| 001 | | 28,900 | 19,300 |
| 002 | | 29,300 | 19,700 |
| 003 | • | 29,500 | 20,200 |
| 004 | 50,000 | 29,300 | 20,700 |
| 005 | 50,400 | 29,300 | 21,100 |
| 006 | | 29,300 | 21,600 |

^{*} Projected.

NOTE: Projections are based on data through 1992-93. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared November 1995.)



Table 31.—First-professional degrees, by sex of recipient, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| | Year ending | Total | Men | Women |
|--------|-------------|---------|--------------------------------|--------|
| 1981 | | 71,956 | 52,792 | 19,164 |
| 1982 | | 72,032 | 52,223 | 19,809 |
| | | 73,136 | 51,310 | 21,826 |
| | | 74,407 | 51,334 | 23.073 |
| | | 75,063 | 50.455 | 24,608 |
| | | 73,910 | 49,261 | 24,649 |
| | | 71,617 | 46.523 | 25,094 |
| | | 70,735 | 45,484 | 25,251 |
| | | 70,733 | , | , |
| | | • | 45,046 43,061 | 25,810 |
| | | 70,988 | 43,961 | 27,027 |
| | | 71,948 | 43,846 | 28,102 |
| | | 74,146 | 45,071 | 29,075 |
| | | 75,387 | 45,153 | 30,234 |
| 1994 • | | 76,000 | 45,400 | 30,600 |
| | | | Middle alternative projections | |
| 1995 | | 77,100 | 45,400 | 31,700 |
| 1996 | | 78,000 | 45,900 | 32,100 |
| 1997 | | 80,900 | 48,700 | 32,200 |
| 1998 | | 81,600 | 48,900 | 32,600 |
| | | 83,000 | 49,900 | 33,100 |
| | | 84,100 | 50,400 | 33,700 |
| | | 86,100 | 51,600 | 34,500 |
| | | 88,900 | 53,700 | 35,200 |
| | | 89,700 | 54,400 | 35,400 |
| | | • | • | , |
| | | 90,200 | 54,500 | 35,700 |
| | | 91,100 | 55,000 | 36,100 |
| 2006 | | 91,700 | 55,200 | 36,500 |
| | | | Low alternative projections | |
| | | 77,100 | 45,400 | 31,700 |
| | | 77,400 | 45,900 | 31,500 |
| | | 77,000 | 46,100 | 30,900 |
| 1998 | | 76,000 | 45,400 | 30,500 |
| 1999 | | 75,200 | 44,800 | 30,400 |
| 2000 | ., | 74,800 | 44,500 | 30,300 |
| 2001 | | 74,500 | 44,200 | 30,300 |
| 2002 | | 74,300 | 44,100 | 30,200 |
| | | 74,200 | 44,000 | 30,200 |
| | | 74,400 | 44,000 | 30,400 |
| | | 74,800 | 44.200 | 30,600 |
| | | 75,200 | 44,400 | 30,800 |
| 2000 | | 75,200 | • | 30,000 |
| 1005 | | 77.100 | High alternative projections | 21.700 |
| | | 77,100 | 45,400 | 31,700 |
| | | 80,000 | 45,900 | 34,100 |
| | | 86,300 | 52,000 | 34,300 |
| | | 87,600 | 52,300 | 35,300 |
| 1999 | | 89,400 | 53,200 | 36,200 |
| 2000 | | 90,000 | 53,300 | 36,700 |
| 2001 | | 92,500 | 54,400 | 38,100 |
| 2002 | | 95,200 | 55,400 | 39,700 |
| | ., | 96,700 | 56,800 | 39,900 |
| | | 99,200 | 59,000 | 40,100 |
| | | 101,400 | 61,100 | 40,400 |
| | | 103,300 | 62,700 | 40,600 |

^{*} Projected.

NOTE: Projections are based on data through 1992-93. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared November 1995.)



Chapter 5

Classroom Teachers

Between 1994 and 2006, the number of classroom teachers in elementary and secondary schools is projected to rise, primarily due to the increase in school enrollment during this period. Increases are expected in the numbers of both elementary and secondary teachers. The number of secondary teachers will increase at a faster rate than the number of elementary teachers. The numbers of public and private teachers are projected to grow.

Three alternative projections of the numbers of classroom teachers were developed to indicate a range of possible outcomes. These alternatives are based on different assumptions about the growth paths for two of the key variables in the teacher model—disposable income per capita and education revenue receipts from state sources per capita. Under the middle alternative, disposable income per capita is projected to increase by 19 percent between 1994 and 2006, while education revenue receipts from state sources per capita will rise by 18 percent during this period. The low alternative assumes that disposable income per capita and education revenue receipts from state sources per capita will increase by 12 percent and 11 percent, respectively. The high alternative assumes that disposable income per capita and education revenue receipts from state sources per capita will increase by 26 percent and 26 percent, respectively. The third variable in the teacher model, enrollment by organizational level, is the same for all three alternatives.

For classroom teachers, the following tabulations show: (1) the average annual rate of change (in percent) for 1981–94 and the three alternative projected rates of change for 1994–2006 and (2) the rates of change for 1981–88 and 1988–94 and the middle alternative projected rates of change for 1994–2000 and 2000–2006.

Average annual rate of change (in percent)

| | 1001 04 | 1994–2006 | | | |
|------------|---------|-----------|--------|------|--|
| | 1981–94 | Low | Middle | High | |
| Total | 1.5 | 0.9 | 1.2 | 1.6 | |
| Elementary | 1.9 | 0.6 | 1.0 | 1.3 | |
| Secondary | 0.9 | 1.3 | 1.7 | 2.0 | |
| Public | 1.5 | 0.9 | 1.3 | 1.6 | |
| Private | 1.5 | 0.8 | 1.2 | 1.5 | |

Average annual rate of change (in percent)

(Middle alternative projections)

| | 1001 00 | 1000 04 | Projected | | |
|------------|---------|---------|-----------|-----------|--|
| | 1981–88 | 1988–94 | 1994–2000 | 2000–2006 | |
| Total | 1.3 | 1.8 | 1.5 | 1.0 | |
| Elementary | 1.9 | 1.9 | 1.3 | 0.6 | |
| Secondary | 0.4 | 1.5 | 1.9 | 1.5 | |
| Public | 1.3 | 1.8 | 1.5 | 1.0 | |
| Private | 1.4 | 1.6 | 1.4 | 0.9 | |

Elementary and Secondary School Teachers

The number of classroom teachers in elementary and secondary schools increased from 2.44 million in 1981 to 2.96 million in 1994, an increase of 21 percent (table 32 and figure 43). Under the middle alternative, the number of classroom teachers is projected to increase to 3.43 million by the year 2006, increasing at an average annual growth rate of 1.2 percent, for a 16-percent increase over the projection period. The growth rate will be higher in the first half of the projection period (1994-2000) than in the second half (2000–2006), 1.5 percent per year versus 1.0 percent (figure 44). Under the low alternative, the number of classroom teachers is projected to increase to 3.29 million by the year 2006, increasing at an average annual growth rate of 0.9 percent. Under the high alternative, classroom teachers are projected to increase to 3.56 million by the year 2006, increasing at an average annual growth rate of 1.6 percent.

Classroom Teachers, by Organizational Level

While elementary enrollment decreased from 1981 to 1983, the number of elementary teachers rose slightly, from 1.40 million in 1981 to 1.43 million in 1983 (figure 45). Then, the number continued to increase to about 1.80 million in 1994, an increase of 28 percent from 1981. Under the middle alternative, the number of elementary teachers is projected to increase to 2.01 million by 2006, an increase of 12 percent from 1994; this increase represents an average annual growth rate of 1.0 percent per year. During the projection period, the growth rate in the 1994–2000 period will be 1.3 percent, while the growth rate



in the 2000–2006 period will be 0.6 percent (figure 46). Under the low alternative, the number of elementary teachers is projected to increase to 1.92 million by the year 2006, increasing at an average annual growth rate of 0.6 percent. Under the high alternative, elementary teachers are projected to increase to 2.09 million by the year 2006, increasing at an average annual growth rate of 1.3 percent.

The number of secondary classroom teachers increased from 1.04 million in 1981 to about 1.17 million in 1994, an increase of 12 percent from 1981. Under the middle alternative, the number of secondary teachers is projected to increase from 1.17 million in 1994 to 1.42 million by the year 2006, resulting in an increase of 22 percent. This increase will represent an average annual growth rate of 1.7 percent over the projection period. During the projection period, the growth rate in the 1994-2000 period will be 1.9 percent, while the growth rate in the 2000-2006 period will be 1.5 percent. Under the low alternative, the number of secondary teachers is projected to increase to 1.37 million by the year 2006, increasing at an average annual growth rate of 1.3 percent. Under the high alternative, secondary teachers are projected to increase to 1.47 million by the year 2006, increasing at an average annual growth rate of 2.0 percent.

Classroom Teachers, by Control of School

The number of classroom teachers in public elementary and secondary schools increased from 2.13 million in 1981 to about 2.58 million in 1994, an increase of 21 percent from 1981 (figure 47). Under the middle alternative, the number of public school teachers is projected to increase to 3.00 million by the year 2006, resulting in an increase of 16 percent from 1994. This increase will represent an average annual growth rate of 1.3 percent. During the projection period, the growth rate in the 1994-2000 period will be 1.5 percent, while the growth rate in the 2000-2006 period will be 1.0 percent (figure 48). Under the low alternative, the number of public school teachers is projected to increase to 2.87 million by the year 2006, increasing at an average annual growth rate of 0.9 percent. Under the high alternative, public school teachers are projected to increase to 3.11 million by the year 2006, increasing at an average annual growth rate of 1.6 percent.

The number of classroom teachers in private elementary and secondary schools was an estimated 379,000 in 1994. This number is projected to increase to 435,000 by the year 2006, an increase of 15 percent from 1994. This increase will represent an average annual growth rate of 1.2 percent. During the projection period, the growth rate in the 1994–2000 period will be 1.4 percent, while the growth rate in the 2000–2006 period will be 0.9 percent. Under the low alternative, the number of private school

teachers is projected to increase to 417,000 by the year 2006, increasing at an average annual growth rate of 0.8 percent. Under the high alternative, private school teachers are projected to increase to 452,000 by the year 2006, increasing at an average annual growth rate of 1.5 percent.

Pupil-Teacher Ratios

A broad relationship between the number of pupils and teachers can be described by the pupil-teacher ratio. The pupil-teacher ratios were computed based on elementary and secondary enrollment by organizational level and the number of classroom teachers by organizational level.

The pupil-teacher ratio in elementary schools decreased from 20.0 in 1981 to 18.4 in 1989. Then, the pupil-teacher ratio increased to 18.8 in 1992 and then declined to 18.4 in 1994 (table 33 and figure 49). Under the middle alternative, this ratio is projected to decline to 17.2 by the year 2006. Under the low and high alternatives, the pupil-teacher ratio in elementary schools is expected to range between 16.6 and 18.0 by the year 2006.

For public elementary schools, under the middle alternative, the pupil-teacher ratio is projected to decrease from 18.8 in 1994 to 17.6 by the year 2006 (figure 50). Under the low and high alternatives, the pupil-teacher ratio in public elementary schools is projected to range between 16.9 and 18.4 by the year 2006. For private elementary schools, under the middle alternative, the pupil-teacher ratio is projected to decrease from 16.3 in 1994 to 15.3 by the year 2006. Under the low and high alternatives, the pupil-teacher ratio in private elementary schools is expected to range between 14.7 and 16.0 by the year 2006.

For secondary schools, the pupil-teacher ratio decreased from 16.8 in 1981 to 14.3 in 1990. Next, it increased to about 14.8 in 1993. Then, it declined to 14.3 in 1994. Under the middle alternative, this ratio is projected to increase to 14.4 in 1997 and then decrease to 14.0 by 2006. Under the low and high alternatives, the pupil-teacher ratio in secondary schools is projected to range between 13.6 and 14.6 by the year 2006.

For public secondary schools, under the middle alternative, the pupil-teacher ratio is projected to decrease from 14.7 in 1994 to 14.4 by 2006. Under the low and high alternatives, the pupil-teacher ratio in public secondary schools is expected to range between 13.9 and 14.9 by the year 2006. For private secondary schools, under the middle alternative, the pupil-teacher ratio is projected to increase from 11.0 in 1994 to 11.2 by 1997. Then, it will decline gradually to 11.0 by the year 2006. Under the low and high alternatives, the pupil-teacher ratio in private secondary schools is projected to range between 10.6 and 11.5 by the year 2006.



Although private school classroom teachers represented 13 percent of total classroom teachers in 1994, private school enrollment was 11 percent of total enrollment. This indicates that private schools have more teachers for a given number of students than do public schools; that is, private school pupil-teacher ratios are smaller than public school pupil-teacher ratios.



Figure 43
Elementary and secondary classroom teachers, with alternative projections: Fall 1981 to fall 2006

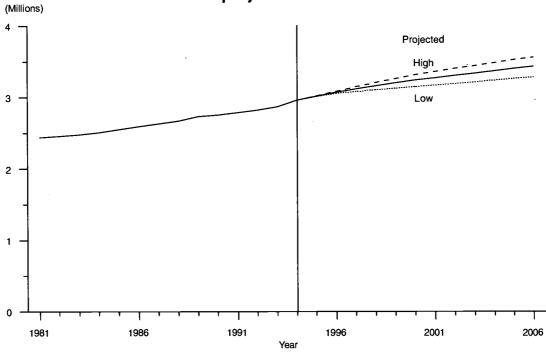


Figure 44
Average annual growth rates for classroom teachers

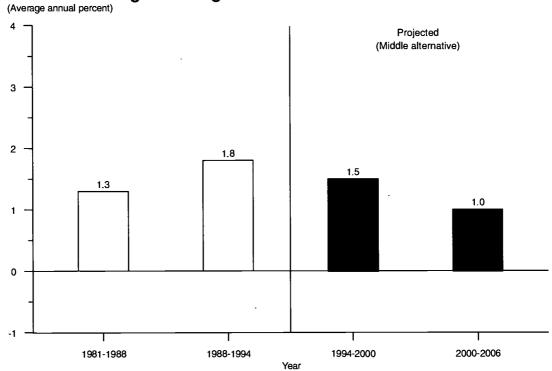




Figure 45
Elementary and secondary classroom teachers, by organizational level, with middle alternative projections: Fall 1981 to fall 2006

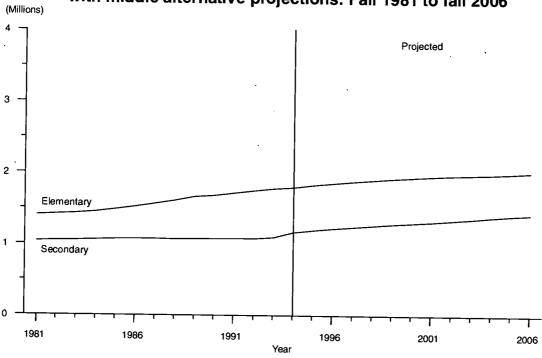


Figure 46
Average annual rates of change for classroom teachers, by organizational level (Average annual percent)

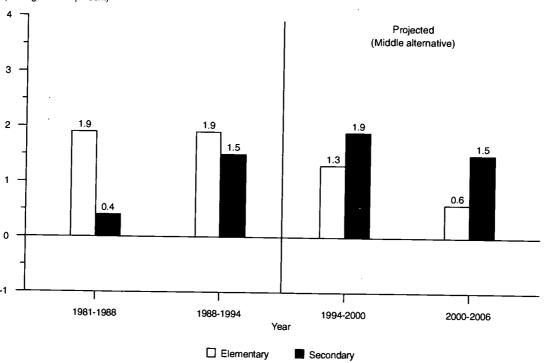




Figure 47
Elementary and secondary classroom teachers, by control of institution, with middle alternative projections: Fall 1981 to fall 2006

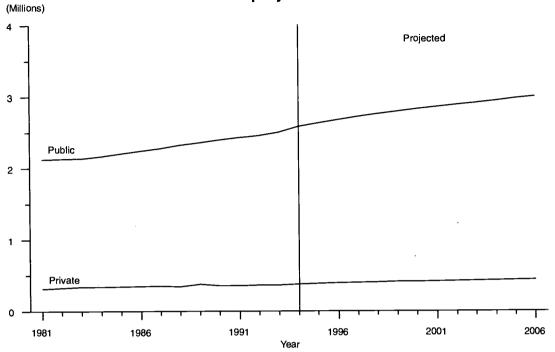


Figure 48

Average annual growth rates for classroom teachers, by control of institution (Average annual percent)

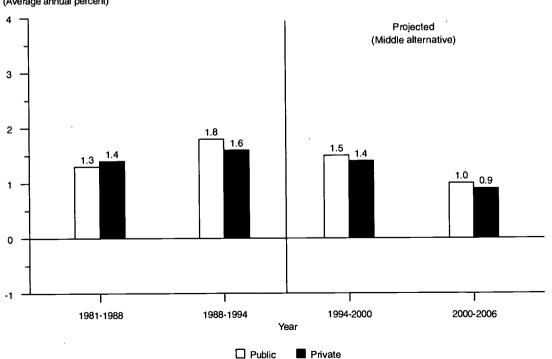




Figure 49
Pupil-teacher ratios, by organizational level,
with middle alternative projections: Fall 1981 to fall 2006

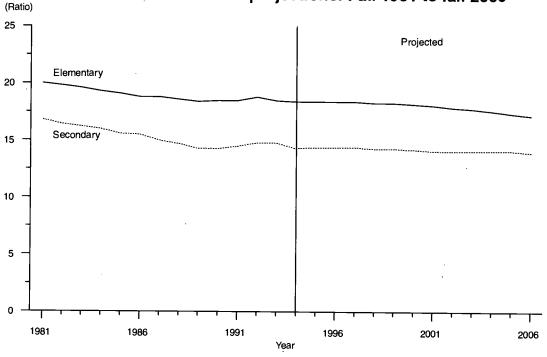


Figure 50
Pupil-teacher ratios, by organizational level and control, with middle alternative projections: Fall 1981 to fall 2006

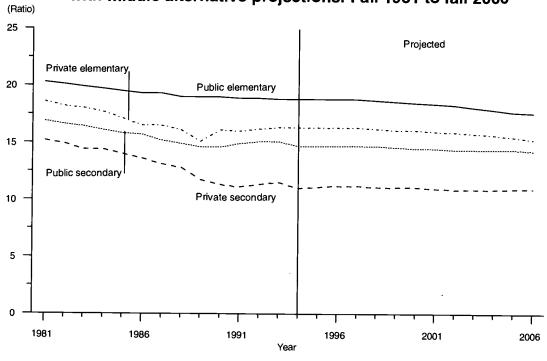




Table 32.—Classroom teachers in elementary and secondary schools, by control of institution and organizational level, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

(In thousands)

| | | Total | | | Public | | | Private | |
|-------------------|----------------|----------------|-----------|-------|-------------------|-----------|------------------|------------|-----------|
| Year | K-12 | Elementary | Secondary | K-12 | Elementary | Secondary | K-12 | Elementary | Secondary |
| 1981 | 2,440 | 1,404 | 1,037 | 2,127 | 1,183 | 945 | 1313 | 221 | 92 |
| 1982 | 2,458 | 1,413 | 1,045 | 2,133 | 1,182 | 951 | 1325 | 231 | 94 |
| 1983 | 2,476 | 1,426 | 1,050 | 2,139 | 1,186 | 953 | 337 | 240 | 97 |
| 1984 | 2,508 | 1,451 | 1,057 | 2,168 | 1,208 | 960 | 1340 | 243 | 97 |
| 1985 | 2,549 | 1,483 | 1,066 | 2,206 | 1,237 | 969 | 343 | 246 | 97 |
| 1986 | 2,592 | 1,521 | 1,071 | 2,244 | 1,271 | 973 | 1348 | 250 | 98 |
| 1987 | 2,632 | 1,564 | 1,068 | 2,279 | 1,307 | 973 | ² 353 | 257 | 95 |
| 1988 | 2,668 | 1,604 | 1,064 | 2,323 | 1,353 | 970 | 2345 | 251 | 94 |
| 1989 | 2,734 | 1,662 | 1,072 | 2,357 | 1,387 | 970 | 2377 | 275 | 102 |
| 1990 | 2,753 | 1,680 | 1,073 | 2,398 | 1,426 | 972 | ² 355 | 254 | 101 |
| 1991 | 2,787 | 1,713 | 1,074 | 2,432 | 1,459 | 973 | ² 355 | 254 | 101 |
| 1992 | 2,821 | 1,746 | 1,075 | 2,458 | 1,486 | 972 | ² 363 | 260 | 103 |
| 1993 | 2,871 | 1,778 | 1,093 | 2,505 | 1,516 | 989 | 3366 | 262 | 104 |
| 1994 ³ | 2,962 | 1,796 | 1,166 | 2,583 | 1,529 | 1,054 | 379 | 267 | 112 |
| 19945 | 2,902 | 1,750 | 1,100 | • | dle alternative p | | | | |
| 1995 | 3,017 | 1,825 | 1,191 | 2,631 | 1,554 | 1,077 | 386 | 272 | 114 |
| 1996 | 3,071 | 1,851 | 1,220 | 2,679 | 1,576 | 1,103 | 392 | 276 | 117 |
| 1997 | 3,118 | 1,876 | 1,242 | 2,720 | 1,597 | 1,123 | 398 | 279 | 119 |
| 1998 | 3,161 | 1,899 | 1,262 | 2,758 | 1,616 | 1,142 | 404 | 283 | 121 |
| 1999 | 3,202 | 1,920 | 1,282 | 2,793 | 1,634 | 1,159 | 409 | 286 | 123 |
| 2000 | 3,239 | 1,938 | 1,301 | 2,826 | 1,649 | 1,177 | 413 | 288 | 125 |
| 2001 | 3,272 | 1,954 | 1,318 | 2,855 | 1,663 | 1,191 | 417 | 291 | 126 |
| | 3,304 | . 1,965 | 1,338 | 2,883 | 1,673 | 1,210 | 421 | 293 | 128 |
| 2002 | | 1,975 | 1,359 | 2,910 | 1,681 | 1,229 | 424 | 294 | 130 |
| 2003 | 3,334 | | 1,383 | 2,940 | 1,690 | 1,250 | 428 | 295 | 132 |
| 2004 | 3,368 | 1,985 | 1,406 | 2,940 | 1,700 | 1,272 | 432 | 297 | 135 |
| 2005 | 3,403 | 1,997 | 1,400 | 2,996 | 1,710 | 1,286 | 435 | 299 | 136 |
| 2006 | 3,431 | 2,009 | 1,422 | • | w alternative pr | | 433 | 2,7,7 | 150 |
| 1995 | 3,014 | 1,823 | 1,191 | 2,629 | 1,552 | 1,077 | 385 | 271 | 114 |
| 1996 | 3,057 | 1,842 | 1,215 | 2,666 | 1,568 | 1,099 | 391 | 274 | 116 |
| 1997 | 3,085 | 1,855 | 1,230 | 2,691 | 1,579 | 1,112 | 394 | 276 | 118 |
| 1998 | 3,107 | 1,864 | 1,243 | 2,710 | 1,586 | 1,124 | 396 | 277 | 119 |
| 1999 | 3,130 | 1,873 | 1,257 | 2,730 | 1,594 | 1,136 | 399 | 279 | 120 |
| 2000 | 3,150 | 1,881 | 1,271 | 2,750 | 1,601 | 1,149 | 402 | 280 | 122 |
| | 3,170 | 1,889 | 1,281 | 2,766 | 1,608 | 1,158 | 404 | 281 | 123 |
| 2001 | 3,170 | 1,895 | 1,297 | 2,785 | 1,613 | 1,173 | 406 | 282 | 124 |
| | 3,192 | 1,900 | 1,313 | 2,804 | 1,617 | 1,187 | 409 | 283 | 126 |
| 2003 | | 1,905 | 1,333 | 2,827 | 1,622 | 1,206 | 411 | 284 | 128 |
| 2004 | 3,239 | | 1,354 | 2,852 | 1,628 | 1,224 | 414 | 285 | 130 |
| 2005 | 3,266 | 1,913 1,920 | 1,367 | 2,832 | 1,634 | 1,236 | 417 | 286 | 131 |
| 2006 | 3,287 | 1,920 | 1,307 | | gh alternative p | | 717 | 200 | |
| 1995 | 3,020 | 1,828 | 1,192 | 2,634 | 1,556 | 1,078 | 386 | 272 | 114 |
| 1996 | 3,020 | 1,861 | 1,226 | 2,693 | 1,584 | 1,108 | 394 | 277 | 117 |
| | | 1,898 | 1,253 | 2,748 | 1,615 | 1,133 | 402 | 282 | 120 |
| 1997 | 3,151 | 1,931 | 1,233 | 2,748 | 1,643 | 1,157 | 410 | 287 | 123 |
| 1998 | 3,210 3,266 | 1,962 | 1,304 | 2,849 | 1,670 | 1,179 | 417 | 292 | 125 |
| 1999 | | | 1,304 | 2,849 | 1,693 | 1,202 | 423 | 296 | 127 |
| 2000 | 3,318 | 1,989 | | 2,894 | 1,713 | 1,202 | 429 | 299 | 129 |
| 2001 | 3,363 | 2,012 | 1,350 | | 1,713 | 1,244 | 434 | 302 | 132 |
| 2002 | 3,405 | 2,030 | 1,376 | 2,971 | | 1,244 | 434 | 304 | 134 |
| 2003 | 3,443 | 2,044 | 1,399 | 3,005 | 1,740 | | | 306 | 137 |
| 2004 | 3,485 | 2,058 | 1,427 | 3,042 | 1,752 | 1,290 | 443 448 | 309 | 137 |
| 2005 | 3,527 | 2,074 | 1,454 | 3,079 | 1,765 | 1,314 | | | 139 |
| 2006 | 3,563 | 2,091 | 1,473 | 3,111 | 1,779 | 1,332 | 452 | 311 | |

¹ Estimated on the basis of past data.

NOTE: The numbers of elementary and secondary teachers reported separately by the National Education Association were prorated to the NCES totals for each year. Projections are based on data through 1992. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; "Private Elementary and Secondary Education, 1983: Enrollment, Teachers, and Schools," NCES Bulletin, December 1984; 1985 Private School Survey; "Key Statistics for Private Elementary and Secondary Education: School Year 1988–89," Early Estimates; "Key Statistics for Private Elementary and Secondary Education: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1992–93," Early Estimates. (This table was prepared October 1995.)



² Estimate.

³ Projected.

Table 33.—Pupil-teacher ratios in elementary and secondary schools, by control of institution and organizational level, with alternative projections: 50 States and D.C., fall 1981 to fall 2006

| Voo- | To | otal | Pul | blic | Priv | ate |
|----------|------------|----------------------|------------------------|----------------------|---------------------|-------------------|
| Year | Elementary | Secondary | Elementary | Secondary | Elementary | Secondary |
| 1981 | 20.0 | 16.8 | 20.3 | 16.9 | 118.6 | 115.2 |
| 1982 | 19.8 | 16.4 | 20.2 | 16.6 | 118.2 | 114.9 |
| 1983 | 19.6 | 16.2 | 19.9 | 16.4 | 18.0 | 14.4 |
| 1984 | 19.3 | 16.0 | 19.7 | 16.1 | 17.7 | 14.4 |
| 1985 | 19.1 | 15.6 | 19.5 | 15.8 | 17.1 | 14.0 |
| 1986 | 18.8 | 15.5 | 19.3 | 15.7 | 116.5 | 113.6 |
| 1987 | 18.8 | 15.0 | 19.3 | 15.2 | ² 16.4 | ² 13.1 |
| 1988 | 18.6 | 14.7 | 19.0 | 14.9 | ² 16.1 | ² 12.8 |
| 1989 | 18.4 | 14.3 | 19.0 | 14.6 | ² 15.1 | ² 11.7 |
| 1990 | 18.5 | 14.3 | 19.0 | 14.6 | ² 16.1 | ² 11.3 |
| 1991 | 18.5 | 14.5 | 18.9 | 14.9 | ² 16.0 | 211.1 |
| 1992 | 18.8 | 14.8 | 18.9 | 15.1 | ² 16.2 | ² 11.3 |
| 1993 | 18.5 | 14.8 | 18.8 | 15.1 | ³ 16.3 | |
| 19943 | 18.4 | 14.3 | 18.8 | 14.7 | 16.3 | ³ 11.5 |
| | | . 1.5 | Middle alternati | | 10.5 | 11.0 |
| 995 | 18.4 | 14.4 | 18.8 | 14.7 | 16.2 | 11.1 |
| 1996 | 18.4 | 14.4 | 18.8 | 14.7 | 16.3 | 11.1 |
| 1997 | 18.4 | 14.4 | 18.8 | | 16.3 | 11.2 |
| 1998 | 18.3 | 14.3 | 18.7 | 14.7 | 16.3 | 11.2 |
| 1999 | 18.3 | 14.3 | | 14.7 | 16.2 | 11.1 |
| 2000 | 18.2 | 14.3 | 18.6 | 14.6 | 16.1 | 11.1 |
| 2001 | 18.1 | | 18.5 | 14.5 | 16.1 | 11.1 |
| 2002 | 18.0 | 14.1 | 18.4 | 14.5 | 16.0 | 11.0 |
| 2003 | 17.8 | 14.1 | 18.3 | 14.4 | 16.0 | 10.9 |
| 2004 | 17.6 | 14.1 | 18.1 | 14.4 | 15.9 | 10.9 |
| 2005 | | 14.1 | 18.0 | 14.4 | 15.7 | 10.9 |
| 2006 | 17.4 | 14.1 | 17.8 | 14.4 | 15.5 | 11.0 |
| 2000 | 17.2 | 14.0 | 17.6 | 14.4 | 15.3 | 1,1.0 |
| 995 | 18.4 | Low alternative pro | jections (Based on h | | | |
| 1996 | | 14.4 | 18.8 | 14.7 | 16.3 | 11.1 |
| 1997 | 18.3 | 14.3 | 18.7 | 14.6 | 16.2 | 11.1 |
| 998 | 18.2 | 14.3 | 18.6 | 14.6 | 16.1 | 11.1 |
| 000 | 18.0 | 14.1 | 18.4 | 14.5 | 16.0 | 11.0 |
| 999 | 17.9 | 14.0 | 18.2 | 14.4 | 15.8 | 10.9 |
| 2000 | 17.7 | 13.9 | 18.1 | 14.2 | 15.7 | 10.8 |
| 2001 | 17.6 | 13.8 | 17.9 | 14.1 | 15.5 | 10.7 |
| 2002 | 17.4 | 13.7 | 17.7 | 14.1 | 15.4 | 10.6 |
| 2003 | 17.2 | 13.7 | 17.5 | 14.0 | 15.3 | 10.6 |
| 2004 | 17.0 | 13.6 | 17.3 | 14.0 | 15.1 | 10.6 |
| 2005 | 16.8 | 13.6 | 17.1 | 13.9 | 14.9 | 10.6 |
| | 16.6 | 13.6 | 16.9 | 13.9 | 14.7 | 10.6 |
| | | High alternative pro | ojections (Based on le | ow alternative proje | ctions of teachers) | |
| 995 | 18.5 | 14.4 | 18.8 | 14.7 | 16.3 | 11.1 |
| 996 | 18.5 | 14.4 | 18.9 | 14.8 | 16.4 | 11.2 |
| 997 | 18.6 | 14.5 | 19.0 | 14.9 | 16.5 | 11.3 |
| 998 | 18.7 | 14.5 | 19.1 | 14.9 | 16.5 | 11.3 |
| 999 | 18.7 | 14.6 | 19.1 | 14.9 | 16.5 | 11.3 |
| 000 | 18.7 | 14.5 | 19.1 | 14.9 | 16.5 | 11.3 |
| 100 | 18.7 | 14.5 | 19.1 | 14.9 | 16.6 | 11.3 |
| 002 | 18.6 | 14.6 | 19.0 | 14.9 | 16.5 | 11.3 |
| 003 | 18.5 | 14.6 | 18.9 | 14.9 | 16.5 | 11.3 |
| 004 | 18.4 | 14.6 | 18.7 | 15.0 | 16.4 | 11.3 |
| 005 | 18.2 | 14.6 | 18.5 | 15.0 | 16.2 | 11.3 |
| 006 | 18.0 | 14.6 | 18.4 | 14.9 | 16.0 | 11.4 |

¹Estimated on the basis of past data.

NOTE: The pupil-teachers ratios were derived from tables 2 and 32. Some data have been revised from previously published figures. Projections are based on data through 1992.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; "Private Elementary and Secondary Education, 1983: Enrollment, Teachers, and Schools," NCES Bulletin, December 1984; 1985 Private School Survey; "Key Statistics for Private Elementary and Secondary Education: School Year 1988–89," Early Estimates; "Key Statistics for Private Elementary and Secondary Education: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1991–92," Early Estimates; and "Public and Private Elementary and Secondary Education Statistics: School Year 1992–93," Early Estimates. (This table was prepared October 1995.)



² Estimate.

³ Projected.

Chapter 6

Expenditures of Public Elementary and Secondary Schools

Current expenditures are projected to increase by 41.4 percent in current dollars and average annual teacher salaries in public elementary and secondary schools are projected to increase by 6.2 percent between school years 1992–93 and 2005–2006 (also in current dollars) in the middle set of projections presented in this chapter. These projections are based on assumptions concerning economic growth and assistance by state governments to local governments; these assumptions are discussed in this chapter. Other sets of projections, based on alternative economic scenarios, are also discussed. No projections for private schools are presented as there are no regular data collections for private school expenditures.

Current Expenditures

Past Trends

Current expenditures increased from \$159.3 billion in 1980–81 to \$227.1 billion in 1992–93 using constant 1993–94 dollars (table 34 and figure 51). (The 1992–93 school year is the last year for which current expenditures are available.) This was an increase of 42.6 percent. Current expenditures are estimated to increase to \$243.7 billion by 1994–95, an increase of 53.0 percent since 1980–81. From 1980–81 to 1992–93, current expenditures per pupil in average daily attendance rose 35.8 percent to \$5,741 (table 34 and figures 52 and 53). Current expenditures per pupil in average daily attendance increased an estimated 40.5 percent from 1980–81 to 1994–95. Current expenditures per pupil in fall enrollment (table 35) increased 36.1 percent from 1980–81 to 1992–93.

Historically, education expenditures have followed a path similar to general economic trends. For much of the period since 1980–81, the economy has been rising. Current expenditures have also been rising during that period. (See figure 54 for a comparison of the growth rates of current expenditures per pupil and one major indicator of the state of the economy, disposable income per capita.)

The amount that local governments spend on education is also historically associated with the amount of state education aid to local governments. There was also a rapid rise in state education aid to local governments during the period from 1980–81 to 1992–93. (See figure 55 for a comparison of the growth rates of current expenditures

per pupil and revenue receipts from state sources per capita).

The only time recently in which current expenditures decreased was from 1977–78 to 1981–82. The following events may account for part of that decline. First, disposable income per capita and state education aid per capita were in periods of either slow growth or decline at that time. Second, this was the period of the "tax revolt," when many voters expressed their displeasure at the spending habits of state or local governments by voting for measures that would limit taxes or spending. Third, it was also a period of high inflation, when state and local governments may have had difficulty anticipating the rapid rise in school costs. Also, enrollments, which had already been in a period of decline, fell sharpely from 1977–78 to 1981–82. During that period, average daily attendance fell 7.4 percent.

Current expenditures have increased each year since 1981–82. The percent increase has not been constant over that time however. Most of the largest of the percent increases occurred from 1984–85 to 1988–89. That was the period when disposable income per capita and state education aid per capita were also increasing most rapidly. Also during that period, enrollments, which had been falling since the early 1970s, entered a period of steady increases. Since 1988–89, current expenditures have not been increasing as rapidly. Disposable income per capita and state education aid per capita have been increasing at lower rates than in the mid-1980s as well.

The percentage of total disposable income spent on public elementary and secondary school current expenditures has increased slightly from 1980–81 (4.5 percent) to 1992–93 (4.8 percent). This percentage was not stable during this period however. It fell to 4.3 percent in 1983–84 before beginning to rise again. The year 1983–84 is notable because enrollment as measured by average daily attendance reached its lowest level since 1962–63 and has been increasing annually since then.

Current expenditures per pupil as a percentage of disposable income per capita rose from 27.2 percent in 1979–80 to 31.2 percent in 1992–93.

Alternative Projections

The level of spending on elementary and secondary education has followed a path similar to the economic climate of the nation and the amount of revenue receipts



provided by state governments to local governments for education. Regression equations were used to develop the forecasts for current expenditures, with a measure of the state of the economy (disposable income per capita) and the amount of revenue receipts from state sources for education used as two factors associated with current expenditures. Several plausible growth paths for disposable income per capita and revenue receipts from state sources were used to produce alternative sets of projections for current expenditures. Hence, the forecasts for current expenditures depend on the forecasts for these inputs. Another important factor is that the relationships that have existed among the variables in the past continue throughout the projection period.

Three sets of projections are presented for current expenditures in this chapter. These sets of forecasts are based on alternative projections for disposable income per capita and local government revenue receipts from state sources per capita. The U.S. Quarterly Model of the economic consulting firm DRI/McGraw-Hill (DRI) was used in developing forecasts of both disposable income per capita and revenue receipts from state sources. The assumptions underlying each set of alternative projections for current expenditures are described briefly. For more information about these assumptions and about the methodology used to compute these forecasts, see appendix A5. The values of disposable income per capita and local government revenue receipts from state sources per capita are shown in Appendix B.

The middle alternative projections are based on the assumptions that disposable income per capita will increase at rates between 1.1 percent and 1.7 percent during the period from 1995–96 to 2005–2006 and that revenue receipts from state sources per capita will increase at rates between 0.8 percent and 2.8 percent.

The low alternative projections are based on the assumptions that disposable income per capita will change at rates between 0.1 percent and 1.6 percent and that revenue receipts from state sources per capita will increase at rates between 0.2 percent and 2.2 percent.

The high alternative projections are based on the assumptions that disposable income will increase at rates between 1.4 percent and 2.3 percent and that revenue receipts from state sources will increase at rates between 1.1 percent and 3.8 percent.

A third factor influencing the growth in current expenditures in these projections is the ratio of enrollment (as measured by average daily attendance) to the population. The same projections for enrollment and the population are used in the production of all sets of projections for current expenditures presented in this chapter.

Enrollments are projected to increase steadily during the forecast period. With enrollments rising, communities should have less money to spend per pupil than if enrollments had remained unchanged. However, this expected increase in enrollment should also have a strong positive effect on total expenditures. With enrollments expected to rise, total expenditures should grow at a higher rate expenditures per pupil.

The projections in this chapter are presented in both constant 1993-94 dollars and in current dollars. The projections were developed in constant dollars and then placed in current dollars using projections for the Consumer Price Index (CPI). Three alternative sets of projections for the CPI were developed, one for each of the alternative sets of projections for current expenditures. These three alternative sets of projections for the CPI were developed simultaneously with the alternative sets of projections for disposable income per capita using the U.S. Quarterly Model. Since the set of projections for the CPI developed for use with the low alternative projections is rising at the fastest rate and that developed for use with the high alternative projections is rising at the slowest rate, it will frequently be the case that the current dollar projections from the low alternative set of projections are higher than those from the other two alternative sets of projections.

In the middle alternative projections, current expenditures in constant 1993–94 dollars are projected to increase steadily throughout the forecast period, reaching \$321.2 billion in 2005–2006. This is an increase of 41.4 percent over the 1992–93 level, and 31.8 percent over the estimated level for 1994–95. Current expenditures are projected to increase most rapidly during the period from 1995–96 to 1999–2000. This is also the period during which enrollments are increasing most rapidly.

Current expenditures per pupil in average daily attendance are projected to increase by 24.3 percent to \$7,138 from 1992–93 to 2005–2006 (table 34 and figures 51 and 51).

In the middle alternative projection, total current expenditures as a percentage of total disposable income are projected to increase from 4.8 percent in 1992–93 to 5.1 percent in 2005–2006. One cause of this projected increase is the large increase in enrollment projected for this period. Enrollment as measured by average daily attendance is projected to increase by 13.7 percent.

Current expenditures per pupil as a percentage of disposable income per capita are also projected to increase, from 31.2 percent to 32.2 percent.

In the low alternative projections, both disposable income per capita and revenue receipts from state sources are projected to increase more slowly than in the middle set of projections. As a result, both current expenditures and current expenditures per pupil are projected to increase more slowly than in the middle set of projections. Current expenditures are projected to increase by 30.9 percent from 1992–93 to 2005–2006, reaching \$297.2 billion at the end of the forecast period. Current expenditures per pupil in average daily attendance are projected to reach \$6,606 by 2005–2006, an increase of 15.1 percent.

In the high alternative projections, both disposable income per capita and revenue receipts from state sources per capita are projected to increase more rapidly than in the middle set of projections. Current expenditures are projected to increase by approximately 51.5 percent over the 1992–93 level to \$344.0 billion in 2005–2006. Current expenditures per pupil in average daily attendance are projected to increase by 33.2 percent to \$7,646.

Teacher Salaries

Past Trends

The period from 1980–81 to 1994–95 has been dominated by two different patterns for teacher salaries in constant dollars (table 36 and figures 56 and 57).

In 1980–81, teacher salaries had reached the bottom of what had been a rather long period of steady declines, and then entered a period of steady and relatively rapid growth. From 1980–81 to 1989–90, teacher salaries increased 21.2 percent, from \$29,804 to \$36,130. During this period, current expenditures and the revenues of state governments were increasing rapidly. (See figure 59 for a comparison of the growth rates for teacher salaries and current expenditures per pupil.) It was during that period when enrollment, which had also been in a period of steady decline, began increasing again.

From 1989–90 to 1994–95, teacher salaries declined 0.6 percent. (Unlike current expenditures, there are values for teacher salaries for 1993–94 and 1994–95.) During much of that period, the economy, current expenditures, and revenues of state and local governments have not been increasing as rapidly as earlier.

In the 1970s, the number of people preparing to become teachers was much greater than the number of openings for newly qualified teachers. The drop in teacher salaries during this time may be attributed, in part, to excess supply. Then the number of people preparing to become teachers dropped, and eventually, the decline in teacher salaries stopped. Another factor that may have had a role in the drop in teacher salaries in constant dollars during the 1970s were the large increases in the inflation rate that occurred during that period. Some of the increase in teacher salaries that occurred during the 1980s may be a result of the reforms enacted to encourage more people to enter the teaching profession.

Alternative Projections

As with current expenditures, a multiple linear regression model was developed for teacher salaries. Teacher salaries are seen as being related to current expenditures and enrollments. (See appendix A5.) Also like current expenditures, these projections depend on the projections of these inputs, and assume that the relationships that have existed among the variables in the past will continue throughout the projection period.

Three sets of alternative projections of teacher salaries—middle, low, and high—have been developed. Each alternative is based on one of the alternative sets of projections for current expenditures presented earlier in this chapter.

The projections for average daily attendance were produced by using the growth rates of the projections for fall enrollment presented in chapter 1. The same projections for average daily attendance were used for each of the three sets of projections for teacher salaries. Enrollments are projected to increase throughout the projection period, with the greatest percent increase occurring in the mid-1990s.

As with current expenditures, the three alternative sets of projections for the Consumer Price Index (CPI) developed using the U.S. Quarterly Model were used to place the constant dollar projections into current dollars. As the set of projections for the CPI developed for use with the low alternative projections is rising at the most rapid rate and that developed for use with the high alternative projections is rising at the slowest rate, in some years, the current dollar teacher salary projections from the low alternative set of projections are higher than those from the other two alternative sets of projections.

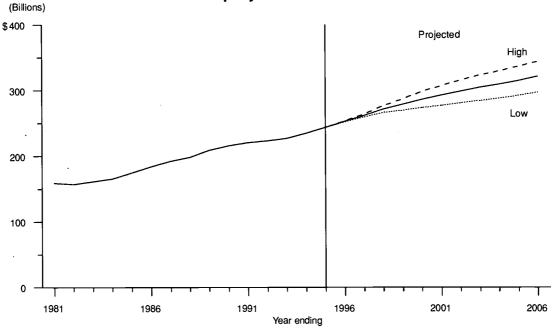
In the middle alternative projections, the average teacher salary in constant 1993–94 dollars is projected to reach \$38,182 in 2005–2006 (table 36 and figure 56). This is a 6.3-percent increase from the level estimated for 1994–95.

In the low alternative projections, teacher salaries are projected to rise slowly throughout the projection period. The average salary is projected to reach \$36,838 in 2005–2006, an increase of about 2.6 percent from 1994–95. (See figure 57 for a comparison of the growth rates for the alternative sets of projections.)

In the high alternative projections, the average teacher salary is projected to reach \$39,416 in 2005–2006, an increase of about 9.8 percent.



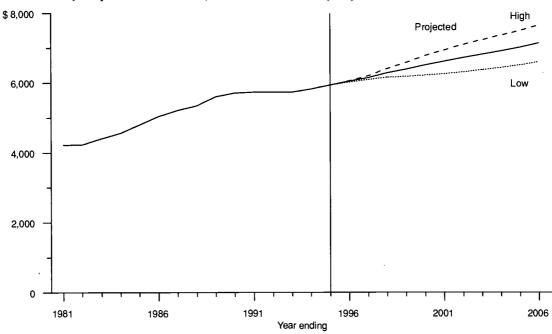
Figure 51
Current expenditures of public schools (in constant 1993-94 dollars), with alternative projections: 1980-81 to 2005-2006



NOTE: Data for 1993-94 and 1994-95 are projected.

Figure 52

Current expenditures per pupil in average daily attendance (in constant 1993-94 dollars) of public schools, with alternative projections: 1980-81 to 2005-2006

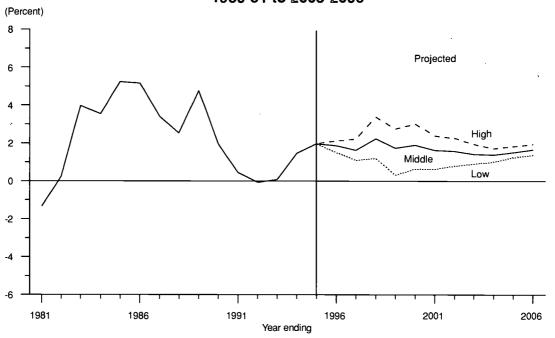


NOTE: Data for 1993-94 and 1994-95 are projected.



Figure 53
Percent change in current expenditures per pupil in average daily attendance (in constant dollars) of public schools, with alternative projections:

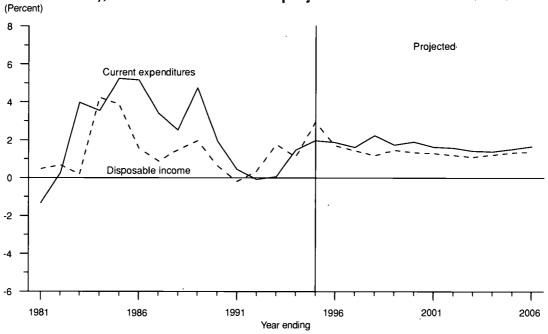
1980-81 to 2005-2006



NOTE: Data for 1993-94 and 1994-95 are projected.

Figure 54

Percent change in current expenditures per pupil in average daily attendance of public schools and disposable income per capita (both in constant dollars), with middle alternative projections: 1980-81 to 2005-2006

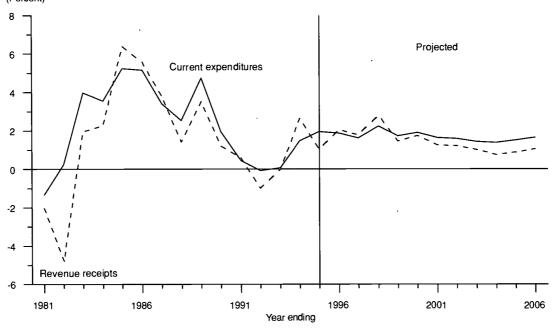


NOTE: Data for current expenditures for 1993-94 and 1994-95 are projected.



Figure 55

Percent change in current expenditures per pupil in average daily attendance of public schools and education revenue receipts from state sources per capita (both in constant dollars), with middle alternative projections: 1980-81 to 2005-2006 (Percent)



NOTE: Data for 1993-94 and 1994-95 are estimated using past data.



Figure 56
Average annual salaries of teachers (in constant 1993-94 dollars) in public schools, with alternative projections: 1980-81 to 2005-2006

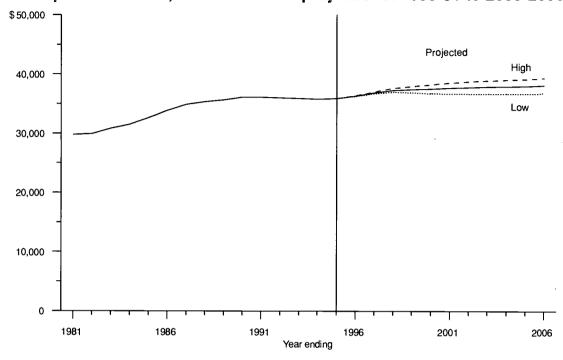


Figure 57
Percent change in average annual salaries of teachers (in constant dollars) in public schools, with alternative projections: 1980-81 to 2005-2006

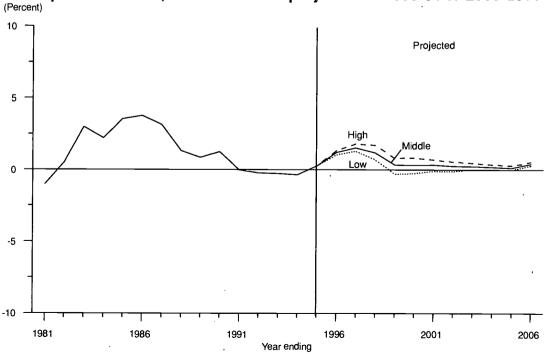




Figure 58

Percent change in average annual salaries of teachers (in constant dollars) in public schools and average daily attendance, with middle alternative projections: 1980-81 to 2005-2006

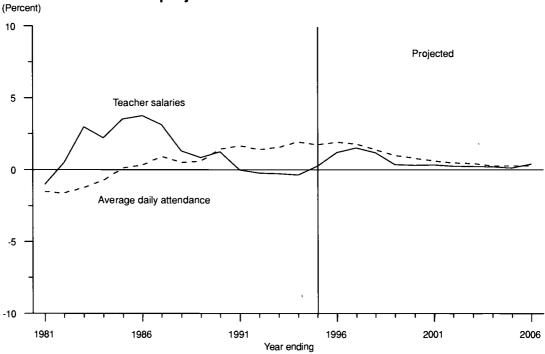
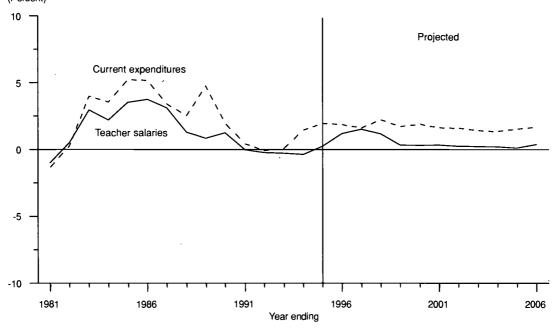


Figure 59
Percent change in average annual salaries of teachers in public schools, and current expenditures per pupil in average daily attendance of public schools (both in constant dollars), with middle alternative projections: 1980-81 to 2005-2006 (Percent)



NOTE: Data for current expenditures for 1993-94 and 1994-95 are estimated.



Table 34.—Current expenditures and current expenditures per pupil in average daily attendance (ADA) in public elementary and secondary schools, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| | | | Current ex | penditures | |
|-------------------|--------------------|------------------------|---------------------------|------------------------|----------------------|
| Year ending | ADA | Constant 199 | 3–94 dollars ¹ | Current | dollars ² |
| | (in thousands) | Total (in billions) | Per pupil in ADA | Total (in billions) | Per pupil in ADA |
| 1981 | 37,704 | \$159.3 | \$4,226 | \$94.3 | \$2,502 |
| 1982 | 37,095 | 157.1 | 4,236 | 101.1 | 2,726 |
| 1983 | 36,636 | 161.4 | 4,405 | 108.3 | 2,955 |
| 1984 | 36,363 | 165.8 | 4,561 | 115.4 | 3,173 |
| 1985 | 36,404 | 174.7 | 4,800 | 126.3 | 3,470 |
| 1986 | 36,523 | 184.3 | 5,047 | 137.2 | 3,756 |
| 1987 | 36,864 | 192.4 | 5,219 | 146.4 | 3,970 |
| 1988 | 37,051 | 198.3 | 5,352 | 157.1 | |
| 1989 | • | | | | 4,240 |
| | 37,268 | 208.9 | 5,606 | 173.1 | 4,645 |
| 1990 | 37,799 | 216.0 | 5,715 | 187.6 | 4,962 |
| 1991 | 38,427 | 220.6 | 5,741 | 202.0 | 5,258 |
| 1992 | 38,961 | 223.5 | 5,737 | 211.2 | 5,421 |
| 1993 | 39,567 | 227.1 | 5,741 | 221.4 | 5,594 |
| 1994 ³ | 40,335 | 234.9 | 5,825 | 234.9 | 5,825 |
| 1995 3 | 41,034 | 243.7 | 5,939 | 250.6 | 6,108 |
| | | Middl | e alternative project | ions | |
| 1996 | 41,819 | 253.0 | 6,049 | 268.0 | 6,408 |
| 1997 | 42,570 | 261.7 | 6,148 | 286.1 | 6,721 |
| 1998 | 43,163 | 271.3 | 6,285 | 306.0 | 7,090 |
| 1999 | 43,593 | 278.7 | 6,394 | 324.9 | 7,453 |
| 2000 | 43,943 | 286.3 | · | | |
| | • | | 6,515 | 345.0 | 7,852 |
| 2001 | 44,213 | 292.8 | 6,622 | _ | _ |
| 2002 | 44,431 | 298.9 | 6,727 | _ | _ |
| | 44,627 | 304.5 | 6,823 | - | _ |
| 2004 | 44,749 | 309.5 | 6,917 | | _ |
| | 44,870 | 315.1 | 7,022 | _ | |
| 2006 | 44,993 | 321.2 | 7,138 | - | _ |
| 1006 | | | alternative projection | | |
| 996 | 41,819 | 252.1 | 6,028 | 268.4 | 6,419 |
| 997 | 42,570 | 259.4 | 6,094 | 289.0 | 6,789 |
| 998 | 43,163 | 266.2 | 6,167 | 311.0 | 7,206 |
| 1999 | 43,593 | 269.7 | 6,186 | 331.1 | 7,595 |
| 2000 | 43,943 | 273.5 | 6,225 | 352.7 | 8,027 |
| 2001 | 44,213 | 277.0 | 6,265 | _ | <u> </u> |
| | 44,431 | 280.6 | 6,315 | _ | _ |
| | 44,627 | 284.4 | 6,372 | _ | |
| 004 | 44,749 | 288.0 | 6,437 | _ | _ |
| 2005 | 44,870 | 292.4 | 6,516 | _ | _ |
| 006 | 44,993 | 297.2 | 6,606 | _ | _ |
| | 44 ,333 | | alternative projection | ons — | _ |
| 996 | 41,819 | 253.6 | 6,065 | 268.1 | 6,411 |
| 997 | 42,570 | 263.9 | · | | , |
| | · | | 6,199 | 286.5 | 6,730 |
| 998 | 43,163 | 276.6 | 6,409 | 307.7 | 7,129 |
| 999 | 43,593 | 287.0 | 6,585 | 328.0 | 7,524 |
| | 43,943 | 298.1 | 6,784 | 350.3 | 7,971 |
| 1001 | 44,213 | 307.1 | 6,946 | _ | |
| .002 | 44,431 | 315.6 | 7,103 | _ | _ |
| 2003 | 44,627 | 323.2 | 7,241 | _ | _ |
| 2004 | 44,749 | 329.6 | 7,366 | _ | _ |
| 2005 | 44,870 | 336.6 | 7,501 | _ | _ |
| 2006 | 44,993 | 344.0 | 7,646 | _ | _ |
| | | 217.0 | 7,040 | | |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of State School Systems; Common Core of Data survey; and the Early Estimates survey; and National Education Association, annual Estimates of State School Statistics. (Latest edition 1994–95. Copyright 1995 by the National Education Association. All rights reserved.) (This table was prepared October 1995.)



² Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

³ Current expenditures and average daily attendance are projected.

Table 35.—Current expenditures and current expenditures per pupil in fall enrollment in public elementary and secondary schools, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| • | | | Current exp | enditures | |
|-------------|---------------------------------|------------------------|---------------------------------|------------------------|---------------------------------|
| Year ending | Fall enrollment ^t | Constant 19 | 93–94 dollars ² | Curren | t dollars ³ |
| | (in thousands) | Total (in billions) | Per pupil in fall enrollment | Total (in billions) | Per pupil in fall enrollment |
| 1981 | 40,877 | \$159.3 | \$3,898 | \$94.3 | \$2,307 |
| 1982 | 40,044 | 157.1 | 3,924 | 101.1 | 2,525 |
| 1983 | 39,565 | 161.4 | 4,079 | 108.3 | 2,736 |
| 1984 | 39,252 | 165.8 | 4,225 | 115.4 | 2,940 |
| 1985 | 39,208 | 174.7 | 4,456 | 126.3 | 3,222 |
| 1986 | 39,422 | 184.3 | 4,676 | 137.2 | 3,479 |
| 1987 | 39,753 | 192.4 | 4,840 | 146.4 | 3,682 |
| 1988 | 40,008 | 198.3 | 4,956 | 157.1 | 3,927 |
| 1989 | 40,188 | 208.9 | 5,199 | 173.1 | 4,307 |
| 1990 | 40,543 | 216.0 | 5,329 | 187.6 | 4,626 |
| 1991 | 41,217 | 220.6 | 5,352 | 202.0 | 4,902 |
| 1992 | 42,047 | 223.5 | 5,316 | 211.2 | 5,023 |
| 1993 | 42,816 | 227.1 | 5,305 | 221.4 | 5,170 |
| 1994 4 | 43,476 | 234.9 | 5,404 | 234.9 | 5,404 |
| 1995 5 | 44,230 | 243.7 | 5,510 | 250.6 | |
| 1773 | 44,230 | | | | 5,667 |
| 1996 | 45,076 | | e alternative projection | | E 0.45 |
| 1997 | , | 253.0 | 5,612 | 268.0 | 5,945 |
| | 45,885 | 261.7 | 5,703 | 286.1 | 6,235 |
| 1998 | 46,524 | 271.3 | 5,831 | 306.0 | 6,578 |
| 1999 | 46,988 | 278.7 | 5,932 | 324.9 | 6,915 |
| 2000 | 47,365 | 286.3 | 6,045 | 345.0 | 7,285 |
| 2001 | 47,656 | 292.8 | 6,143 | | _ |
| 2002 | 47,891 | 298.9 | 6,241 | _ | _ |
| 2003 | 48,102 | 304.5 | 6,330 | - | _ |
| 2004 | 48,234 | 309.5 | 6,417 | _ | _ |
| 2005 | 48,365 | 315.1 | 6,514 | _ | _ |
| 2006 | 48,497 | 321.2 | 6,622 | _ | |
| 1006 | 45.076 | | alternative projections | | |
| 1996 | 45,076 | 252.1 | 5,592 | 268.4 | 5,955 |
| 1997 | 45,885 | 259.4 | 5,654 | 289.0 | 6,299 |
| 1998 | 46,524 | 266.2 | 5,721 | 311.0 | 6,685 |
| 1999 | 46,988 | 269.7 | 5,739 | 331.1 | 7,046 |
| 2000 | 47,365 | 273.5 | 5,775 | 352.7 | 7,447 |
| 2001 | 47,656 | 277.0 | 5,812 | _ | _ |
| 2002 | 47,891 | 280.6 | 5,859 | · | |
| 2003 | 48,102 | 284.4 | 5,911 | _ | _ |
| 2004 | 48,234 | 288.0 | 5,972 | _ | _ |
| 2005 | 48,365 | 292.4 | 6,045 | _ | _ |
| 2006 | 48,497 | 297.2 | 6,129 | _ | _ |
| 1006 | 45.076 | | alternative projections | | |
| 1996 | 45,076 | 253.6 | 5,627 | 268.1 | 5,948 |
| 1997 | 45,885 | 263.9 | 5,751 | 286.5 | 6,244 |
| 1998 | 46,524 | 276.6 | 5,946 | 307.7 | 6,614 |
| 1999 | 46,988 | 287.0 | 6,109 | 328.0 | 6,981 |
| 2000 | 47,365 | 298.1 | 6,294 | 350.3 | 7,395 |
| 2001 | 47,656 | 307.1 | 6,445 | _ | _ |
| 2002 | 47,891 | 315.6 | 6,590 | _ | _ |
| 2003 | 48,102 | 323.2 | 6,718 | _ | _ |
| 2004 | 48,234 | 329.6 | 6,834 | _ | _ |
| 2005 | 48,365 | 336.6 | 6,959 | _ | _ |
| 2006 | 48,497 | 344.0 | 7,094 | _ | _ |

¹ Each enrollment number is for the fall of the school year ending in the school year shown in column 1. Hence, the enrollment number listed for 1981 is for fall 1980.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of State School Systems; Statistics of Public Elementary and Secondary Schools; "Selected Public and Private Elementary and Secondary Education Statistics," NCES Bulletin, October 23, 1979; Common Core of Data survey; and the Early Estimates survey; and National Education Association, annual Estimates of State School Statistics. (Latest edition 1994–95. Copyright 1995 by the National Education Association. All rights reserved.) (This table was prepared October 1995.)



² Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

³ Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

⁴ Current expenditures are projected.

⁵Current expenditures are projected and fall enrollment is an early estimate.

Table 36.—Average annual salaries of classroom teachers in public elementary and secondary schools, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | Constant 1993–94 dollars ¹ | Current dollars ² |
|-------------|---------------------------------------|------------------------------|
| 1981 | \$29,804 | |
| 1982 | | 19,274 |
| 1983 | · = | 20,695 |
| 984 | · | 21,935 |
| 985 | | 23,600 |
| 986 | | 25,199 |
| 987 | · · · · · · · · · · · · · · · · · · · | 26,569 |
| 988 | 5.,5=1 | 28,034 |
| 989 | | 29,564 |
| 990 | | |
| 991 | · , · | 31,367 |
| 992 | , | 33,085 |
| 993 | | 34,063 |
| 994 | | 35,029 |
| 995 | - <i>,</i> | 35,819 |
| 993 | 25,500 | 36,933 |
| 996 | Middle alternativ | |
| 997 | · · · · · · · · · · · · · · · · · · · | 39,808 |
| | | 41,713 |
| 998 | | 43,554 |
| 999 | • | 45,164 |
| 000 | • | 46,843 |
| 001 | | _ |
| 002 | | _ |
| 003 | | - |
| 004 | | _ |
| 005 | | _ |
| 006 | 38,182 | _ |
| | Low alternative | projections |
| 996 | | 39,953 |
| 997 | | 42,336 |
| 998 | | 44,717 |
| 999 | | 46,847 |
| 000 | | 49,072 |
| 001 | | <u>.</u> |
| 002 | | _ |
| 003 | | _ |
| 004 | | _ |
| 005 | | · |
| 006 | | _ |
| | High alternative | nrojections |
| 996 | | 39,772 |
| 997 | | 41,581 |
| 998 | • • | 43,337 |
| 999 | - 1,0.0 | • |
| 000 | • • | 44,877 |
| 001 | | 46,528 |
| | | - |
| 002 003 | • | _ |
| 003 | 20,700 | |
| 004 | , | _ |
| 005 | | _ |
| 006 | | _ |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: National Education Association, annual Estimates of State School Statistics. (Latest edition 1994–95. Copyright 1995 by the National Education Association. All rights reserved.) (This table was prepared October 1995.)



² Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Chapter 7

Expenditures of Institutions of Higher Education

The steady growth in higher education expenditures that has marked the 1980s and early 1990s is expected to continue throughout the 1990s and beyond. Key assumptions behind these projections are that the economy continues to grow at a steady rate, that inflation rates remain near current levels, and that enrollments increase as in the middle alternative projections presented in chapter 2. Projections based on alternative economic scenarios are discussed below.

The higher education system is examined by both control of institution (public versus private) and by type of institution (4-year versus 2-year). For each of these sectors of higher education, two different types of expenditures—current-fund expenditures and educational and general expenditures—are examined. Educational and general expenditures consist only of that portion of current-fund expenditures that are for activities that are directly related to the education of students. Expenditures for such activities as auxiliary enterprises are excluded. All expenditure data have been adjusted for inflation. Since the historical trends and the projections of current-fund expenditures and educational and general expenditures are very similar, emphasis is given to current-fund expenditures.

Past Trends

Following a well-established trend, current-fund expenditures have increased significantly since 1980–81 (table 37 and figure 60). In real terms, current-fund expenditures increased 56.7 percent from 1980–81 to 1992–93. (1992–93 is the last year for which there are actual data.) From 1980–81 to 1994–95, current-fund expenditures are estimated to have increased 63.8 percent. The rate of increase in current-fund expenditures during this period has not been consistent. There have been years of rapid growth and slow growth, and even decline. Factors that can be associated with current-fund expenditures during these periods include: (1) the economy as a whole, and, for public institutions, the economic situation of state and local governments; (2) the inflation rate; and (3) enrollments.

Current-fund expenditures grew slowly from 1980–81 to 1981–82. During that period, current-fund expenditures increased 1.0 percent, from \$108.2 billion to \$109.3 billion in constant 1993–94 dollars. The economy was in a period of slow growth at that time. One measure of the state of the economy, disposable income per capita, rose only

0.7 percent. Inflation was also increasing rapidly. The average annual inflation rate for that period was over 11.6 percent as measured by the Consumer Price Index.

Current-fund expenditures have risen steadily since 1981–82. From 1981–82 to 1992–93, current-fund expenditures increased 55.1 percent.

The greatest increases occurred from 1981–82 to 1986–87, when current–fund expenditures rose 27.2 percent. The economy was increasing steadily during that period with disposable income per capita rising 11.1 percent.

Much of the 22.0 percent increase that occurred from 1986–87 to 1992–93 was due to the rapid increase in enrollments that occurred during that time. The number of students as measured by full-time-equivalent enrollment rose 15.5 percent. From 1981–82 to 1986–87, full-time-equivalent enrollment rose by 0.5 percent.

While current-fund expenditures in both public and private institutions rose, they did not rise at the same rate. From 1980–81 to 1992–93, current-fund expenditures increased 50.2 percent in public institutions and 69.3 percent in private institutions.

For the period under examination, educational and general expenditures have been an almost constant percentage of current-fund expenditures (about 78 percent). Hence, the trend for educational and general expenditures is virtually identical to that for current-fund expenditures (table 38 and figure 61). Total educational and general expenditures in constant dollars increased 56.5 percent from 1980–81 to 1992–93. There was a 47.9 percent increase in educational and general expenditures in public colleges from 1980–81 to 1992–93 and a 74.8 percent increase in private colleges.

Since the trends of current-fund expenditures for the different sectors show some differences, the data are examined separately for each sector, except private 2-year institutions. Expenditures are examined both as a total and per student in full-time-equivalent (FTE) enrollment.

The trend for private 2-year projections is not shown separately because there have been significant additions to the universe of private 2-year institutions since 1980–81. Private 2-year institutions comprise the smallest of the higher education sectors. In 1992–93, they accounted for only 1.0 percent of total current-fund expenditures and 2.0 percent of FTE enrollment.



Public 4-Year Institutions

The trend for current-fund expenditures in public 4-year institutions is very similar to that for all institutions (table 39). The period from 1980–81 to 1981–82 saw current-fund expenditures increase only 0.5 percent. Since then, current expenditures have increased steadily. From 1981–82 to 1992–93 current-fund expenditures increased 50.8 percent. As with the trend for all institutions, the most rapid growth occurred from 1981–82 to 1986–87 when current-fund expenditures rose 25.0 percent. During that time, full-time-equivalent enrollment increased by only 1.9 percent.

When current-fund expenditures are examined on a per student basis, a somewhat different pattern emerges. With the slowing down of the economy, the rise in inflation, and the increase in enrollment, current-fund expenditures per student fell 0.7 percent from 1980–81 to 1981–82. As with total current-fund expenditures, current-fund expenditures per student rose each year from 1981–82 to 1992–93. Most of the increase occurred from 1981–82 to 1986–87 when current-fund expenditures per student rose 22.6 percent. From 1986–87 to 1992–93, when FTE enrollment rose 11.7 percent, current-fund expenditures per student only rose 7.4 percent.

The trend for educational and general expenditures (table 40) is similar to that for current-fund expenditures.

Public 2-Year Institutions

Public 2-year institutions show a similar trend to public 4-year institutions (table 41). There was a small 0.8 percent increase in current-fund expenditures in public 2-year institutions from 1980–81 to 1981–82. This was followed by an 18.3 percent increase from 1981–82 to 1986–87. A further 24.0 increase occurred from 1986–87 to 1992–93, when enrollments rose 26.6 percent.

As with public 4-year current-fund expenditures, a somewhat different pattern emerges when public 2-year current-fund expenditures are placed in per student terms. With total current-fund expenditures increasing 0.8 percent and enrollments rising 3.6 percent, current-fund expenditures per student fell 2.7 percent from 1980–81 to 1981–82. Between 1981–82 and 1986–87, current-fund expenditures per student rose 22.6 percent. From 1986–87 to 1992–93, current-fund expenditures per student fell 2.1 percent.

The trend for educational and general expenditures (table 42) is similar to that for current-fund expenditures.

Private 4-Year Institutions

From 1980–81 until 1981–82, current-fund expenditures in private 4-year institutions rose 1.9 percent. Like public institutions, current-fund expenditures rose rapidly throughout the rest of the 1980's. From 1981–82 to 1992–93, current-fund expenditures rose 66.8 percent (table 43).

With the increase in the number of students and the slowdown in the economy, expenditures per student ned unchanged from 1980-81 to 1981-82. Since then,

current-fund expenditures per student have been rising. From 1981–82 to 1986–87, current-fund expenditures per student rose 31.8 percent. After that, as enrollments increased, current expenditures per student have continued to increase, but not at as rapid a rate. From 1986–87 to 1992–93, current expenditures per student rose 10.7 percent.

The trend for educational and general expenditures (table 44) is similar to that for current-fund expenditures.

Alternative Projections

Projections have been prepared for each of the sectors of higher education. With the exception of the private 2-year sector, these projections have been developed using regression models. In most cases, expenditures per student are seen as being related to the state of the economy (as measured by either disposable income per capita or the revenues of state and local governments per capita), the inflation rate, and enrollments. (For more details, see appendix A6.) Hence, the forecasts for higher education expenditures depend on the forecasts for these three types of inputs. Another important factor is that the relationships that have existed among the variables in the past continue throughout the projection period.

Three sets of projections are presented in this chapter. Each is based on an alternative set of assumptions for the state of the economy, specifically, a different growth path for either disposable income per capita or the revenues of state and local governments per capita. These alternative scenarios for the state of the economy were developed using the U.S. Quarterly Model developed by DRI/McGraw-Hill.

The middle alternative projections are based on the assumption that the economy continues to grow at a steady rate (disposable income per capita increases each year from 1995-96 to 2005-2006 at a rate between 1.1 and 1.7 percent and the revenues of state and local governments per capita increase at rates between 1.0 percent and 2.5 percent.) Two alternative sets of projections were developed to show the impact of various economic scenarios. In the low alternative, the economy grows at a lower rate than in the middle alternative set of projections. The growth rate of disposable income per capita varies between 0.1 and 1.6 percent and that for the revenues of state and local governments per capita varies between 0.2 and 1.6 percent. In the high alternative, the economy enters a period of rapid growth and disposable income grows at rates between 1.4 and 2.3 percent and the revenues of state and local governments per capita grow at rates between 1.4 and 3.5 percent.

The three alternative sets of projections are also based on alternative projections for the inflation rate. The projections for the inflation rate were also developed using the U.S. Quarterly Model. For the forecast period, they range from 3.0 percent to 4.1 percent for the middle alternative, 3.5 percent to 5.1 percent for the low alternative, and 2.5 percent to 4.1 percent for the high alternative.

The projections of the enrollment are those for the middle alternative projections for full-time-equivalent enrollment presented in chapter 2.

The projections in this chapter are presented in both constant 1993-94 dollars and in current dollars. The projections were developed in constant dollars and then placed in current dollars using projections for the Consumer Price Index (CPI). Three alternative sets of projections for the CPI were developed, one for use with the middle alternative projections, one for use with the low alternative projections, and one for use with the high alternative projections. These three alternative sets of projections for the CPI were developed using the U.S. Quarterly Model. As the set of projections for the CPI developed for use with the low alternative projections is rising at the most rapid rate and that developed for use with the high alternative projections is rising at the slowest rate, it is frequently the case that the current dollar projections from the low alternative set of projections are higher than those from the other two alternative sets of projections.

Due to the short time series of consistent data, only one set of projections was produced for private 2-year institutions. This was included in each of the alternative projections. The set of projections for private 2-year institutions is not examined separately.

All of the alternative projections indicate an increase in current-fund expenditures throughout the remainder of the century. In the middle alternative projection, current-fund expenditures are projected to reach \$237.1 billion in 2005–2006. This is a 39.8 percent increase from 1992–93, the last year for which there are actual data. In the low alternative projection, current-fund expenditures are projected to increase to \$232.0 billion. In the high alternative projection, the figure for 2005–2006 is \$241.5 billion.

A similar pattern is seen for educational and general expenditures. In the middle alternative projection, educational and general expenditures are projected to be \$180.7 billion in 2005–2006, a 36.6-percent increase from 1992–93. In the low alternative projection, educational and general expenditures are projected to increase to \$175.4 billion. In the high alternative projection, the figure for 2005–2006 is \$185.5 billion.

Public 4-Year Institutions

There are only small differences in the trends among the various sectors of higher education. In public 4-year institutions, current-fund expenditures are projected to reach \$126.1 billion in the middle alternative projection in 2005–2006 (table 40). This is a 42.8 percent increase from 1992–93 to 2005–2006. In the low alternative projection, the value for 2005–2006 is \$124.5 billion and in the high alternative projection, it is \$127.7 billion.

Since full-time-equivalent (FTE) enrollment is projected to increase by 18.1 percent from 1992–93 to 2005–2006, the rate of increase for expenditures is lower on a per student basis. In the middle alternative projection, a 21.0 percent increase is projected for the period from 1992–93 to 2005–2006 compared with 19.4 percent for the low alternative projection and 22.5 percent for the high alternative projection. The most rapid increases are projected to occur from 1992–93 to 1995–96, when FTE enrollments are projected to increase slowly.

Public 2-Year Institutions

Expenditures are also seen as increasing in public 2-year institutions. For instance, in the middle alternative projection, current-fund expenditures are projected to reach \$24.7 billion in 2005–2006 and expenditures per student are projected to increase to \$7,113. When the low alternative projection is used, with its lower growth path for revenues of state and local governments per capita, lower values for current expenditure are found. When the high alternative projection is used, with its higher growth path for revenues of state and local governments per capita, higher values are found. The most rapid increases for expenditures per student are projected to occur from 1992–93 to 1995–96, when the slowest growth in FTE enrollments is projected.

Private 4-Year Institutions

The trends for private 4-year institutions exhibit the same patterns as other types of institutions. Total current-fund expenditures are seen as increasing each year. In the middle alternative projection, from 1992–93 to 2005–2006, they are projected to increase 39.0 percent. Current-fund expenditures per student are projected to increase 17.8 percent during the same time.



Figure 60

Current-fund expenditures (in constant 1993-94 dollars) of public and private institutions of higher education, with middle alternative projections: 1980-81 to 2005-2006

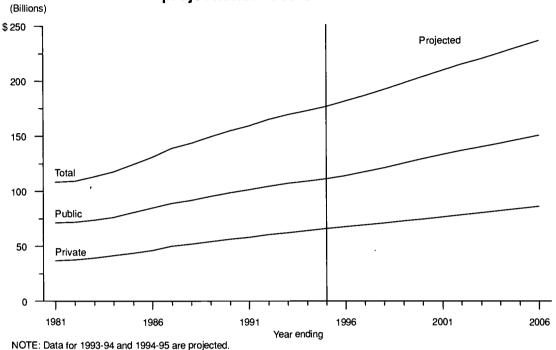


Figure 61
Educational and general expenditures (in constant 1993-94 dollars) of public and private institutions of higher education, with middle alternative projections: 1980-81 to 2005-2006

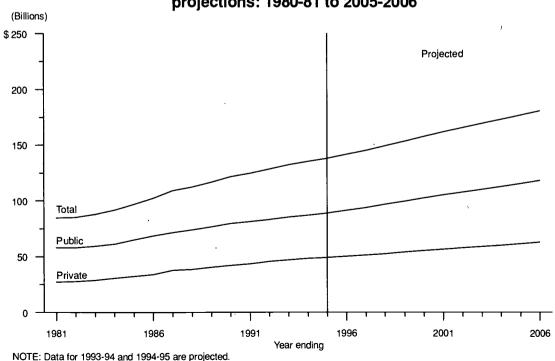




Table 37.—Current-fund expenditures of public and private institutions of higher education, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | Constant 1993-94 dollars (in billions) | | | Current dollars (in billions) | | |
|------------------|--|--------|---------------------|-------------------------------|--------|---------|
| | Total | Public | Private | Total | Public | Private |
| 1981 | \$108.2 | \$71.4 | \$36.8 | \$64.1 | \$42.3 | \$21.8 |
| 1982 | 109.3 | 71.8 | 37.5 | 70.3 | 46.2 | 24.1 |
| 1983 | 113.2 | 73.9 | 39.3 | 75.9 | 49.6 | 26.4 |
| 1984 | 117.8 | 76.3 | 41.5 | 82.0 | 53.1 | 28.9 |
| 1985 | 124.4 | 80.7 | 43.8 | 90.0 | 58.3 | 31.6 |
| 986 | 131.1 | 84.9 | 46.2 | 97.5 | 63.2 | 34.3 |
| 987 | 139.0 | 88.9 | 50.1 | 105.8 | 67.7 | 38.1 |
| 988 | 143.6 | 91.7 | 51.9 | 113.8 | 72.6 | 41.1 |
| 989 | 149.5 | 95.3 | 54.2 | 123.9 | 78.9 | 44.9 |
| 990 | 155.1 | 98.8 | 56.3 | 134.7 | 85.8 | 48.9 |
| 991 | 159.5 | 101.5 | 58.0 | 146.1 | 93.0 | 53.1 |
| 992 | 165.3 | 104.6 | 60.7 | 156.2 | 98.8 | 57.3 |
| 993 | 169.6 | 107.3 | 62.3 | 165.2 | 104.6 | 60.7 |
| 994 2 | 173.2 | 109.3 | 64.0 | 173.2 | 109.3 | 64.0 |
| 995 ² | 177.2 | 111.3 | 66.0 | 182.3 | 114.4 | 67.8 |
| | 177.2 | | e alternative proje | | 114.4 | 07.0 |
| 996 | 182.0 | 114.3 | 67.7 | 192.8 | 121.1 | 71.7 |
| 997 | 187.0 | 117.6 | 69.3 | 204.4 | 128.6 | 75.8 |
| 998 | 192.6 | 121.4 | 71.1 | 217.2 | 137.0 | 80.3 |
| 999 | 198.3 | 125.4 | 72.9 | 231.2 | 146.1 | 85.0 |
| 000 | 204.3 | 129.5 | 74.7 | 246.2 | 156.1 | 90.0 |
| 001 | 209.9 | 133.4 | 74.7 76.5 | 240.2 | 130.1 | 90.0 |
| 002 | 215.4 | | | | _ | _ |
| | | 137.0 | 78.4 | _ | _ | _ |
| 003 004 | 220.6 | 140.3 | 80.3 | | _ | _ |
| | 226.0 | 143.7 | 82.3 | _ | _ | _ |
| 005 | 231.4 | 147.2 | 84.3 | | _ | _ |
| 006 | 237.1 | 150.8 | 86.3 | <u> </u> | _ | _ |
| 007 | 101.6 | | alternative projec | | | |
| 996 | 181.6 | 114.3 | 67.3 | 193.4 | 121.7 | 71.7 |
| 997 | 186.1 | 117.6 | 68.5 | 207.4 | 131.1 | 76.3 |
| 998 | 191.0 | 121.0 | 70.0 | 223.2 | 141.4 | 81.7 |
| 999 | 195.9 | 124.4 | 71.5 | 240.5 | 152.7 | 87.8 |
| 000 | 201.1 | 128.0 | 73.1 | 259.3 | 165.0 | 94.3 |
| 001 | 206.2 | 131,4 | 74.8 | _ | _ | _ |
| 002 | 211.2 | 134.6 | 76.6 | _ | _ | _ |
| 003 | 216.2 | 137.7 | 78.5 | _ | _ | _ |
| 004 | 221.3 | 140.9 | 80.4 | _ | _ | _ |
| 005 | 226.6 | 144.2 | 82.3 | _ | _ | _ |
| 006 | 232.0 | 147.7 | 84.3 | _ | _ | _ |
| | | High | alternative project | etions | | |
| 996 | 182.1 | 114.3 | 67.8 | 192.5 | 120.8 | 71.7 |
| 997 | 187.5 | 117.7 | 69.8 | 203.5 | 127.7 | 75.8 |
| 998 | 193.8 | 121.9 | 71.9 | 215.6 | 135.6 | 80.0 |
| 999 | 200.1 | 126.4 | 73.8 | 228.7 | 144.4 | 84.3 |
| 000 | 206.7 | 131.0 | 75.7 | 242.9 | 154.0 | 88.9 |
| 001 | 212.9 | 135.3 | 77.6 | | _ | _ |
| 002 | 218.7 | 139.2 | 79.5 | | _ | _ |
| 003 | 224.3 | 142.9 | 81.4 | _ | _ | _ |
| 004 | 229.9 | 146.4 | 83.4 | | _ | _ |
| 005 | 235.6 | 150.1 | 85.5 | _ | _ | _ |
| 006 | 233.6 | 154.0 | 83.3 87.5 | _ | _ | _ |
| 000 | 241.3 | 1,54.0 | 01.3 | | _ | |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education," and "Fall Enrollment in Colleges and Universities" surveys. (This table was prepared November 1995.)



² Projected.

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 38.—Educational and general expenditures of public and private institutions of higher education, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| 97 | Constant 1 | 1993–94 dollars ¹ | (in billions) | Curre | ent dollars (in bil | lions) |
|---|------------|------------------------------|--------------------|-------------|---------------------|---------|
| Year ending - | Total | Public | Private | Total | Public | Private |
| 981 | \$84.6 | \$57.7 | \$26.9 | \$50.1 | \$34.2 | \$15.9 |
| 982 | 85.2 | 57.8 | 27.5 | 54.8 | 37.2 | 17.7 |
| 983 | 87.8 | 59.2 | 28.6 | 58.9 | 39.7 | 19.2 |
| 984 | 91.6 | 61.2 | 30.4 | 63.7 | 42.6 | 21.1 |
| 985 | 96.9 | 64.8 | 32.1 | 70.1 | 46.9 | 23.2 |
| 986 | 102.3 | 68.4 | 33.9 | 76.1 | 50.9 | 25.3 |
| 987 | 109.1 | 71.5 | 37.6 | 83.0 | 54.4 | 28.6 |
| 988 | 112.5 | 74.0 | 38.5 | 89.2 | 58.6 | 30.5 |
| 989 | 116.8 | 76.6 | 40.3 | 96.8 | 63.4 | 33.4 |
| 990 | 121.6 | 79.7 | 42.0 | 105.6 | 69.2 | 36.4 |
| 991 | 124.6 | 81.2 | 43.4 | 114.1 | 74.4 | 39.7 |
| 992 | 128.6 | 83.1 | 45.5 | 121.6 | 78.6 | 43.0 |
| 993 | 132.3 | 85.4 | 47.0 | 129.0 | 83.2 | 45.8 |
| 994 2 | 135.3 | 87.1 | 48.2 | 135.3 | 87.1 | 48.2 |
| 9952 | 138.0 | 88.9 | 49.1 | 141.9 | 91.5 | 50.5 |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 150.0 | | e alternative proj | | 71.0 | 50.5 |
| 996 | 141.5 | 91.3 | 50.2 | 149.9 | 96.7 | 53.2 |
| 997 | 145.1 | 93.8 | 51.3 | 158.7 | 102.6 | 56.1 |
| 998 | 149.2 | 96.7 | 52.5 | 168.4 | 109.1 | 59.2 |
| 999 | 153.4 | 99.6 | 53.9 | 178.8 | 116.1 | 62.8 |
| 000 | 157.8 | 102.5 | 55.3 | 190.2 | 123.5 | 66.7 |
| 001 | 161.8 | 105.2 | 56.6 | 170.E | 125.5 | |
| 002 | 165.6 | 107.8 | 57.8 | | | |
| 003 | 169.3 | 110.3 | 59.0 | | | |
| 004 | 173.0 | 112.8 | 60.1 | | | _ |
| | 176.8 | 115.5 | 61.3 | | _ | _ |
| 005 | 180.7 | 118.2 | 62.6 | | _ | |
| 006 | 160.7 | | alternative projec | | _ | _ |
| 004 | 141.2 | 91.3 | 49.9 | 150.4 | 97.2 | 53.1 |
| 996 | 141.2 | 93.8 | | 160.8 | 104.6 | 56.2 |
| 997 | 144.3 | 95.6 96.4 | 50.5 | 172.6 | 112.6 | 60.0 |
| 998 | 147.7 | 98.6 | 51.3 | 185.4 | 121.1 | 64.3 |
| 999 | | | 52.4 | 199.3 | 130.2 | 69.1 |
| 000 | 154.6 | 101.0 | 53.6 | 199.3 | 130.2 | 09.1 |
| 001 | 158.0 | 103.3 | 54.7 | | _ | |
| 002 | 161.3 | 105.5 | 55.7 | _ | _ | _ |
| 003 | 164.6 | 107.8 | 56.8 | _ | _ | |
| 004 | 168.0 | 110.1 | 57.9 | _ | | _ |
| 005 | 171.6 | 112.6 | 59.0 | | _ | |
| 006 | 175.4 | 115.2 | 60.2 | | _ | _ |
| 007 | 141.6 | | alternative proje | | 07.5 | 52.2 |
| 996 | 141.6 | 91.3 | 50.3 | 149.7 | 96.5 | 53.2 |
| 997 | 145.7 | 93.9 | 51.8 | 158.1 | 101.9 | 56.2 |
| 998 | 150.5 | 97.2 | 53.3 | 167.4 | 108.1 | 59.3 |
| 999 | 155.4 | 100.5 | 54.9 | 177.5 | 114.8 | 62.7 |
| 000 | 160.4 | 103.9 | 56.5 | 188.5 | 122.1 | 66.4 |
| 2001 | 165.0 | 107.0 | 57.9 | _ | _ | _ |
| | 169.2 | 110.0 | 59.2 | _ | _ | |
| 2003 | 173.2 | 112.8 | 60.4 | _ | - | _ |
| 2004 | 177.2 | 115.5 | 61.7 | _ | _ | _ |
| | 181.3 | 118.3 | 63.0 | _ | _ | - |
| 2006 | 185.5 | 121.2 | 64.3 | _ | _ | _ |

 $^{^{\}rm I}$ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



² Projected.

⁻Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 39.—Current-fund expenditures and current-fund expenditures per full-time-equivalent (FTE) student of public 4-year institutions, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| | Full-time- | | Current-func | l expenditures | |
|-------------|--------------------------|---------------------|---------------------------|---------------------|-----------------------|
| Year ending | equivalent enrollment | Constant 199 | 3-94 dollars ¹ | Current | dollars |
| | (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student in FTE |
| 1981 | | \$58.6 | \$14,084 | \$34.7 | \$8,338 |
| 1982 | 4,210 | 58.9 | 13,987 | 37.9 | 9,000 |
| 1983 | | 60.5 | 14,342 | 40.6 | 9,622 |
| 1984 | , | 62.6 | 14,685 | 43.6 | 10,218 |
| 1985 | - 1 | 66.4 | 15,674 | 48.0 | 11,333 |
| 1986 | 4,240 | 70.1 | 16,541 | 52.2 | 12,308 |
| 1987 | | 73.6 | 17,153 | 56.0 | 13,048 |
| 1988 | 4,392 | 75.9 | 17,282 | 60.1 | 13,692 |
| 1989 | | 78.9 | 17,520 | 65.3 | 14,516 |
| 1990 | 4,620 | 81.6 | 17,668 | 70.9 | 15,339 |
| 1991 | | 83.8 | 17,689 | 76.7 | 16,200 |
| 1992 | | 86.1 | 17,960 | 81.3 | 16,973 |
| 1993 | | 88.3 | 18,418 | 86.1 | 17,949 |
| 1994 2 | | 90.3 | 18,969 | 90.3 | 18,969 |
| 1995 2 | 4,717 | 92.3 | 19,569 | 94.9 | · |
| 1775 | 4,/1/ | | | | 20,128 |
| 1006 | 4.762 | | lle alternative projec | | |
| 1996 | | 94.9 | 19,924 | 100.5 | 21,105 |
| 1997 | | 97.7 | 20,198 | 106.8 | 22,082 |
| 1998 | | 100.8 | 20,476 | 113.7 | 23,100 |
| 1999 | | 104.1 | 20,616 | 121.4 | 24,033 |
| 2000 | | 107.6 | 20,710 | 129.7 | 24,959 |
| 2001 | 5,317 | 110.9 | 20,856 | _ | _ |
| 2002 | 5,397 | 114.0 | 21,116 | _ | _ |
| 2003 | 5,462 | 116.9 | 21,407 | _ | _ |
| 2004 | ., 5,529 | 119.9 | 21,690 | _ | _ |
| 2005 | | 123.0 | 21,981 | _ | _ |
| 2006 | - , | 126.1 | 22,278 | <u>—</u> | |
| | .,,,,,,, | | alternative projecti | one — | |
| 1996 | ., 4,762 | 94.9 | 19,924 | 101.0 | 21.210 |
| 1997 | | 97.7 | · | | 21,218 |
| 1998 | | | 20,199 | 108.8 | 22,505 |
| 1999 | | 100.6 | 20,438 | 117.6 | 23,881 |
| | | 103.6 | 20,518 | 127.2 | 25,191 |
| 2000 | - , | 106.8 | 20,559 | 137.7 | 26,509 |
| 2001 | , | 109.9 | 20,667 | - | _ |
| 2002 | - , | 112.8 | 20,894 | _ | _ |
| 2003 | | 115.6 | 21,164 | _ | _ |
| 2004 | . 5,529 | 118.5 | 21,434 | _ | _ |
| 2005 | . 5,595 | 121.5 | 21,714 | _ | _ |
| 2006 | . 5,661 | 124.5 | 21,999 | _ | _ |
| | | High | alternative projecti | ons | |
| 1996 | . 4,762 | 94.9 | 19,924 | 100.3 | 21,061 |
| 1997 | -, | 97.7 | 20,203 | 106.1 | 21,932 |
| 1998 | 4,923 | 101.0 | 20,522 | 112.4 | 22,829 |
| 1999 | . 5,050 | 104.6 | 20,714 | 112.4 | |
| 2000 | | 108.3 | , | | 23,669 |
| 2001 | - , | | 20,854 | 127.3 | 24,503 |
| | , , | 111.9 | 21,037 | | _ |
| 2002 | | 115.1 | 21,327 | _ | |
| 2003 | , | 118.2 | 21,643 | . — | _ |
| 2004 | , | 121.3 | 21,943 | _ | _ |
| 2005 | , | 124.5 | 22,248 | | _ |
| 2006 | . 5,661 | 127.7 | 22,561 | _ | _ |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



² Projected.

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 40.—Educational and general expenditures and educational and general expenditures per full-time-equivalent (FTE) student of public 4-year institutions, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| | End Alma | | Educational and g | eneral expenditures | | |
|-------------|------------------------------|---------------------|---------------------------|---------------------|----------------|--|
| Year ending | Full-time- equivalent | Constant 1993 | 3–94 dollars ¹ | Current | dollars | |
| <u> </u> | enrollment (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student in | |
| 1981 | 4,159 | \$45.8 | \$11,003 | \$27.1 | \$6,514 | |
| 1982 | 4,210 | 45.7 | 10,853 | 29.4 | 6,983 | |
| 983 | 4,221 | 46.8 | 11,079 | 31.4 | 7,433 | |
| 984 | 4,266 | 48.5 | 11,378 | 33.8 | 7,917 | |
| 985 | 4,237 | 51.6 | 12,174 | 37.3 | 8,802 | |
| 986 | • | | 12,874 13,328 | 40.6 | 9,579 | |
| 987 | | | | 43.5 | 10,138 | |
| 988 | 4,392 | 59.3 | 13,499 | 47.0 | 10,695 | |
| 989 | 4,502 | 61.3 | 13,613 | 50.8 | 11,279 | |
| 990 | 4,620 | 63.7 | 13,785 | 55.3 | 11,967 | |
| 991 | 4,736 | 64.7 | 13,665 | 59.3 | 12,515 | |
| 992 | 4,792 | 65.9 | 13,754 | 62.3 | 12,998 | |
| 993 | 4,795 | 67.7 | 14,114 | 66.0 | 13,755 | |
| 994 2 | 4,762 | 69.5 | 14,594 | 69.5 | 14,594 | |
| 995 2 | 4,717 | 71.3 | 15,122 | 73.4 | 15,554 | |
| | , | Midd | le alternative projec | ctions | • | |
| 996 | 4,762 | 73.3 | 15,391 | 77.6 | 16,303 | |
| 997 | 4,837 | 75.3 | 15,573 | 82.4 | 17,026 | |
| 998 | 4,923 | 77.6 | 15,755 | 87.5 | 17,774 | |
| 999 | 5,050 | 79.8 | 15,794 | 93.0 | 18,411 | |
| 000 | 5,195 | 82.0 | 15,783 | 98.8 | 19,022 | |
| 001 | 5,317 | 84.2 | 15,831 | _ | | |
| .002 | 5,397 | 86.3 | 15,998 | _ | _ | |
| 003 | 5,462 | 88.5 | 16,201 | _ | _ | |
| 2004 | 5,529 | 90.6 | 16,395 | _ | _ | |
| .005 | 5,595 | 92.9 | 16,597 | _ | | |
| .006 | 5,661 | 95.1 | 16,805 | _ | _ | |
| | 5,001 | | alternative project | ions | | |
| 996 | 4,762 | 73.3 | 15,391 | 78.0 | 16,390 | |
| 997 | 4,837 | 75.3 | 15,575 | 83.9 | 17,352 | |
| 998 | 4,923 | 77.4 | 15,721 | 90.4 | 18,369 | |
| 999 | 5,050 | 79.3 | 15,707 | 97.4 | 19,284 | |
| 2000 | 5,195 | 81.3 | 15,649 | 104.8 | 20,178 | |
| 2001 | 5,317 | 83.3 | 15,662 | _ | 20,170 | |
| 2002 | 5,397 | 85.3 | 15,800 | _ | | |
| 2003 | 5,462 | 87.3 | 15,984 | _ | _ | |
| 2004 | 5,529 | 89.4 | 16.168 | _ | _ | |
| 2005 | 5,595 | 91.5 | 16,360 | _ | _ | |
| 2006 | 5,661 | 93.7 | 16,556 | | | |
| | 5,001 | | alternative project | ions | | |
| 996 | 4,762 | 73.3 | 15,391 | 77.5 | 16,269 | |
| 997 | 4,837 | 75.3 | 15,578 | 81.8 | 16,911 | |
| 998 | 4,923 | 77.8 | 15,795 | 86.5 | 17,571 | |
| 999 | 5,050 | 80.2 | 15,881 | 91.6 | 18,147 | |
| 2000 | 5,195 | 82.7 | 15,912 | 97.1 | 18,696 | |
| 2001 | 5,317 | 85.0 | 15,992 | | | |
| 2002 | 5,397 | 87.4 | 16,187 | _ | _ | |
| 2003 | 5,462 | 89.6 | 16,411 | | | |
| 2004 | 5,529 | 91.9 | 16,621 | _ | | |
| 2005 | 5,529 5,595 | 91.9 94.2 | 16,836 | _ | _ | |
| 2006 | | 94.2 96.6 | 17,057 | _ | | |
| 2000 | 5,661 | 70.0 | 17,037 | | | |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

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² Projected

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 41.—Current-fund expenditures and current-fund expenditures per full-time-equivalent (FTE) student of public 2-year institutions, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| | Eull time | Current-fund expenditures | | | | | | | |
|-------------------|--|---------------------------|---------------------------|---------------------|-----------------------|--|--|--|--|
| Year ending | Full-time- equivalent enrollment | Constant 1993 | 3–94 dollars ¹ | Current | dollars | | | | |
| | (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student in FTE | | | | |
| 1981 | 2,484 | \$12.8 | \$5,170 | *7.6 | \$3,061 | | | | |
| 1982 | 2,573 | 12.9 | 5,031 | 8.3 | 3,237 | | | | |
| 1983 | 2,629 | 13.4 | 5,078 | 9.0 | 3,407 | | | | |
| 1984 | 2,616 | 13.7 | 5,219 | 9.5 | 3,631 | | | | |
| 1985 | 2,438 | 14.2 | 5,842 | 10.3 | 4,224 | | | | |
| 1986 | 2,428 | 14.8 | 6,094 | 11.0 | 4,534 | | | | |
| 1987 | 2,483 | 15.3 | 6,169 | 11.7 | 4,692 | | | | |
| 1988 | 2,542 | 15.8 | 6,209 | 12.5 | 4,919 | | | | |
| 1989 | 2,592 | 16.4 | 6,331 | 13.6 | 5,246 | | | | |
| 1990 | 2,751 | 17.2 | 6,241 | 14.9 | 5,418 | | | | |
| 1991 | 2,819 | 17.7 | 6,290 | 16.2 | 5,761 | | | | |
| 1992 | 3,068 | 18.5 | 6,040 | 17.5 | 5,708 | | | | |
| 1993 | 3,144 | 19.0 | 6,040 | 18.5 | 5,886 | | | | |
| 1994 ² | 3,048 | 18.9 | 6,215 | 18.9 | • | | | | |
| 1995 2 | • | | · | | 6,215 | | | | |
| 1993 | 2,962 | 19.0 | 6,404 | 19.5 | 6,586 | | | | |
| 1006 | 2 000 | | le alternative projec | | | | | | |
| 1996 | 2,999 | 19.4 | 6,475 | 20.6 | 6,859 | | | | |
| 1997 | 3,053 | 19.9 | 6,527 | 21.8 | 7,136 | | | | |
| 1998 | 3,104 | 20.6 | 6,640 | 23.2 | 7,491 | | | | |
| 1999 | 3,180 | 21.3 | 6,685 | 24.8 | 7,792 | | | | |
| 2000 | 3,260 | 21.9 | 6,731 | 26.4 | 8,112 | | | | |
| 2001 | 3,321 | 22.5 | 6,778 | _ | _ | | | | |
| 2002 | 3,359 | 23.0 | 6,846 | _ | _ | | | | |
| 2003 | 3,380 | 23.4 | 6,919 | _ | _ | | | | |
| 2004 | 3,407 | 23.8 | 6,975 | _ | _ | | | | |
| 2005 | 3,440 | • | 7,037 | _ | _ | | | | |
| 2006 | 3,471 | 24.7 | 7,113 | _ | _ | | | | |
| | -, | | alternative projecti | ons | | | | | |
| 996 | 2,999 | 19.4 | 6,475 | 20.7 | 6,895 | | | | |
| 997 | 3,053 | 19.9 | 6,529 | 22.2 | 7,275 | | | | |
| 998 | 3,104 | 20.4 | 6,579 | 23.9 | 7,688 | | | | |
| 999 | 3,180 | 20.8 | 6,530 | 25.5 | 8,018 | | | | |
| 2000 | 3,260 | 21.2 | 6,492 | 27.3 | • | | | | |
| 2001 | · | | • | 27.3 | 8,371 | | | | |
| | 3,321 | 21.5 | 6,479 | _ | _ | | | | |
| 2002 | 3,359 | 21.8 | 6,496 | _ | _ | | | | |
| 2003 | 3,380 | 22.1 | 6,535 | - | _ | | | | |
| 2004 | 3,407 | 22.4 | 6,573 | _ | _ | | | | |
| | 3,440 | 22.8 | 6,617 | _ | _ | | | | |
| | 3,471 | 23.2 | 6,674 | _ | _ | | | | |
| | | High | alternative projecti | ons | | | | | |
| 996 | 2,999 | 19.4 | 6,475 | 20.5 | 6,844 | | | | |
| 997 | 3,053 | 20.0 | 6,535 | 21.7 | 7,094 | | | | |
| 998 | 3,104 | 20.8 | 6,711 | 23.2 | 7,466 | | | | |
| 999 | 3,180 | 21.7 | 6,839 | 24.8 | 7,815 | | | | |
| | 3,260 | 22.7 | 6,959 | 26.7 | 8,176 | | | | |
| 001 | 3,321 | 23.5 | 7,064 | | | | | | |
| 2002 | 3,359 | 24.1 | 7,179 | _ | _ | | | | |
| 2003 | 3,380 | 24.6 | 7,179 | | | | | | |
| 2004 | 3,407 | 25.1 | | _ | _ | | | | |
| | | | 7,375 | _ | _ | | | | |
| 2005 | 3,440 | 25.7 | 7,458 | | _ | | | | |
| 2006 | 3,471 | 26.2 | 7,560 | | _ | | | | |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



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² Projected.

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 42.—Educational and general expenditures and educational and general expenditures per full-time-equivalent (FTE) student of public 2-year institutions, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| | E-11 4' | Educational and General expenditures | | | | | | | |
|---|---------------------------------------|--------------------------------------|---------------------------|---------------------|-----------------------|--|--|--|--|
| Year ending | Full-time- equivalent | Constant 1993 | 1–94 dollars ¹ | Current | dollars | | | | |
| - · · · · · · · · · · · · · · · · · · · | enrollment (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student in FTE | | | | |
| 981 | 2,484 | \$12.0 | \$4,816 | \$7.1 | \$2,851 | | | | |
| 982 | 2,573 | 12.1 | 4,694 | 7.8 | 3,020 | | | | |
| 983 | 2,629 | 12.4 | 4,724 | 8.3 | 3,169 | | | | |
| 984 | 2,616 | 12.7 | 4,846 | 8.8 | 3,372 | | | | |
| 985 | 2,438 | 13.2 | 5,434 | 9.6 | 3,929 | | | | |
| 986 | 2,428 | 13.8 | 5,679 | 10.3 | 4,225 | | | | |
| 987 | 2,483 | 14.3 | 5,742 | 10.8 | 4,368 | | | | |
| 988 | 2,542 | 14.7 | 5,793 | 11.7 | 4,590 | | | | |
| 989 | | 15.3 | 5,898 | 12.7 | 4,887 | | | | |
| | 2,751 | | 5,810 | 13.9 | 5,044 | | | | |
| 991 | 2,819 | 16.0 16.5 | 5,858 | 15.1 | 5,365 | | | | |
| 992 | 3,068 | 17.2 | 5,611 | 16.3 | 5,302 | | | | |
| 993 | 3,144 | 17.7 | 5,632 | 17.3 | 5,488 | | | | |
| 994 2 | 3,048 | 17.6 | 5,776 | 17.6 | 5,776 | | | | |
| 995 2 | 2,962 | 17.6 | 5,937 | 18.1 | 6,107 | | | | |
| • | 2,702 | | le alternative projec | | 0,107 | | | | |
| 006 | 2 000 | | 6,006 | 19.1 | 6,362 | | | | |
| 997 | | | 6,059 | 20.2 | 6,625 | | | | |
| 998 | 3,104 | | • | 21.6 | 6,966 | | | | |
| | | 19.2 | 6,175 | | | | | | |
| 999 | 3,180 | 19.8 | 6,226 6,270 | 23.1 | 7,257 | | | | |
| 000 | 3,260 | 20.5 | 6,279 | 24.7 | 7,567 | | | | |
| | 3,321 | 21.0 | 6,329 | _ | _ | | | | |
| 002 | · · · · · · · · · · · · · · · · · · · | | 6,395 | - | _ | | | | |
| 2003 | 3,380 | 21.8 | 6,461 | | _ | | | | |
| 004 | 3,407 | 22.2 | 6,512 | _ | _ | | | | |
| | 3,440 | 22.6 | 6,570 | _ | _ | | | | |
| | 3,471 | 23.1 | 6,642 | <u> </u> | _ | | | | |
| | | | alternative project | | | | | | |
| 996 | 2,999 | 18.0 | 6,006 | 19.2 | 6,396 | | | | |
| 997 | 3,053 | 18.5 | 6,062 | 20.6 | 6,754 | | | | |
| 998 | 3,104 | 19.0 | 6,112 | 22.2 | 7,142 | | | | |
| 999 | 3,180 | 19.3 | 6,065 | 23.7 | 7,447 | | | | |
| 2000 | 3,260 | 19.7 | 6,031 | 25.4 | 7,777 | | | | |
| 2001 | 3,321 | 20.0 | 6,018 | - | _ | | | | |
| 2002 | 3,359 | 20.3 | 6,031 | _ | _ | | | | |
| 2003 | 3,380 | 20.5 | 6,062 | - | _ | | | | |
| 2004 | 3,407 | 20.8 | 6,094 | _ | _ | | | | |
| 2005 | 3,440 | 21.1 | 6,134 | _ | | | | | |
| 2006 | 3,471 | 21.5 | 6,186 | | _ | | | | |
| | | Higl | ı alternative project | ions | | | | | |
| 996 | 2,999 | 18.0 | 6,006 | 19.0 | 6,349 | | | | |
| 997 | 3,053 | 18.5 | 6,068 | 20.1 | 6,587 | | | | |
| 998 | 3,104 | 19.4 | 6,249 | 21.6 | 6,951 | | | | |
| 999 | 3,180 | 20.3 | 6,386 | 23.2 | 7,298 . | | | | |
| 2000 | 3,260 | 21.2 | 6,516 | 25.0 | 7,656 | | | | |
| 2001 | 3,321 | 22.0 | 6,626 | | _ | | | | |
| 2002 | 3,359 | 22.6 | 6,741 | ·· | _ | | | | |
| 2003 | 3,380 | 23.1 | 6,847 | _ | _ | | | | |
| 2004 | 3,407 | 23.6 | 6,928 | _ | _ | | | | |
| 2005 | 3,440 | 24.1 | 7,008 | _ | _ | | | | |
| 2006 | 3,440 | 24.7 | 7,107 | | _ | | | | |
| ٠٠٠٠٠ ٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠ | 3,471 | 24.1 | 1,107 | <u>—</u> | | | | | |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



² Projected

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 43.—Current-fund expenditures and current-fund expenditures per full-time-equivalent (FTE) student of private 4-year institutions, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| | | Full-time- | | Current-func | l expenditures | |
|--------|---|--------------------------|---------------------|---------------------------|---------------------|--------------------|
| | Year ending | equivalent enrollment | Constant 1993 | 3–94 dollars ¹ | Current | dollars |
| _ | | (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student in FTE |
| | | 2,003 | \$35.7 | \$17,847 | \$21.2 | \$10,566 |
| 1982 | | 2,041 | 36.4 | 17,852 | 23.4 | 11,487 |
| 1983 | *************************************** | 2,029 | 38.2 | 18,822 | 25.6 | |
| 1984 | | 2,059 | 40.4 | 19,609 | | 12,628 |
| 1985 | | 2,054 | 42.5 | 20,688 | 28.1 | 13,643 |
| | | 2,053 | 44.9 | | 30.7 | 14,958 |
| | | 2,067 | 48.6 | 21,849 23,520 | 33.4 | 16,257 |
| | | 2,092 | | / | 37.0 | 17,892 |
| | | · | 50.5 | 24,136 | 40.0 | 19,123 |
| | | 2,162 | 52.9 | 24,448 | 43.8 | 20,255 |
| | | 2,195 | 55.0 | 25,038 | 47.7 | 21,737 |
| | | 2,231 | 56.6 | 25,388 | 51.9 | 23,251 |
| | | 2,289 | 59.3 | 25,906 | 56.0 | 24,483 |
| | | 2,335 | 60.8 | 26,031 | 59.2 | 25,368 |
| 1994 2 | | 2,359 | 62.6 | 26,524 | 62.6 | 26,524 |
| 19952 | | 2,306 | 64.5 | 27,963 | 66.3 | 28,761 |
| | | | | e alternative project | | 20,701 |
| 1996 | *************************************** | 2,328 | 66.2 | 28,426 | 70.1 | 20.111 |
| 1997 | | 2,365 | 67.8 | 28,678 | | 30,111 |
| | •••••• | 2,405 | 69.6 | | 74.1 | 31,353 |
| 1999 | | 2,466 | | 28,926 | 78.5 | 32,633 |
| | | | 71.3 | 28,915 | 83.1 | 33,707 |
| | | 2,538 | 73.1 | 28,784 | 88.0 | 34,690 |
| | | 2,596 | 74.8 | 28,828 | _ | _ |
| | | 2,632 | 76.7 | 29,139 | | |
| | | 2,663 | 78.6 | 29,514 | _ | |
| | | 2,693 80.5 | 80.5 | 29,899 | _ | |
| | | 2,725 | 82.5 | 30,274 | | |
| 2006 | | 2,756 | | | _ | |
| | | | Low | alternative projection | ons | |
| 1996 | | 2,328 | 65.8 | 28,285 | 70.1 | 30,121 |
| | *************************************** | 2,365 | 66.9 | 28,313 | 74.6 | , |
| 1998 | | 2,405 | 68.4 | 28,434 | 74.0 79.9 | 31,545 |
| | ••••• | 2,466 | 69.9 | | | 33,224 |
| | | 2,538 | 71.5 | 28,345 | 85.8 | 34,801 |
| | | 2,596 | | 28,165 | 92.2 | 36,317 |
| | | · | 73.1 | 28,171 | _ | _ |
| | | 2,632 | 74.9 | 28,456 | | _ |
| 2003 | ••••••••••••••••••••••••••••••••••••••• | 2,663 | 76.7 | 28,823 | _ | · — |
| | | 2,693 | 78.6 | 29,196 | _ | |
| 2005 | | 2,725 | 80.6 | 29,568 | _ | |
| 2006 | | 2,756 | 82.5 | 29,948 | | _ |
| | | | High | alternative projection | ons | |
| 1996 | | 2,328 | 66.3 | 28,493 | 70.1 | 20.110 |
| 1997 | *************************************** | 2,365 | 68.3 | 28,873 | 70.1 74.1 | 30,119 |
| | | 2,405 | 70.4 | 29,246 | | 31,344 |
| | | 2,466 | 70.4 | · · | 78.3 | 32,534 |
| | ••••• | 2,538 | | 29,262 | 82.5 | 33,437 |
| | | | 74.0 | 29,172 | 87.0 | 34,276 |
| 2002 | | 2,596 | 75.9 | 29,226 | _ | _ |
| 2002 | *************************************** | 2,632 | 77.8 | 29,550 | _ | _ |
| 2002 | | 2,663 | 79.7 | 29,937 | _ | _ |
| | | 2,693 | 81.7 | 30,324 | | |
| | | 2,725 | 83.7 | 30,715 | <u> </u> | _ |
| 2006 | | 2,756 | 85.7 | 31,111 | _ | _ |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



² Projected.

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

Table 44.—Educational and general expenditures and educational and general expenditures per full-time-equivalent (FTE) student of private 4-year institutions, with alternative projections: 50 States and D.C., 1980–81 to 2005–2006

| | | Educational and general expenditures | | | | | | | |
|-------------|------------------------------|--------------------------------------|---------------------------------|---------------------|----------------------|--------|--|--|--|
| Year ending | Full-time- equivalent | Constant 1993 | 3–94 dollars ¹ | Current | dollars | | | | |
| real chang | enrollment (in thousands) | Total (in billions) | Per student in FTE | Total (in billions) | Per student i FTE | | | | |
| | 2,003 | \$26.0 | \$12,966 | \$15.4 | \$7,676 | | | | |
| 082 | 2,041 | 26.6 | 13,015 | 17.1 | 8,374 | | | | |
| | 2,029 | 27.7 | 13,652 | 18.6 | 9,160 | | | | |
| 083 | 2,059 | 29.4 | 14,267 | 20.4 | 9,926 | | | | |
| 84 | | | 15,076 | 22.4 | 10,901 | | | | |
| 85 | 2,054 | 31.0 | | 24.4 | 11,883 | | | | |
| 86 | 2,053 | 32.8 | 15,970 | | 13,337 | | | | |
| 87 | 2,067 | 36.2 | 17,533 | 27.6 | | | | | |
| 88 | 2,092 | 37.2 | 17,788 | 29.5 | 14,094 | | | | |
| 89 | 2,162 | 39.0 | 18,060 | 32.3 | 14,963 | | | | |
| 90 | | | 18,556 | 35.4 | 16,110 | | | | |
| 91 | 2,231 | 42.1 | 18,891 | 38.6 | 17,301 | | | | |
| 92 | 2,289 | 44.3 | 19,332 | 41.8 | 18,269 | | | | |
| 93 | 2,335 | 45.6 | 19,531 | 44.4 | 19,034 | | | | |
| | 2,359 | 46.9 | 19,869 | 46.9 | 19,869 | | | | |
| 9942 | , | 47.7 | 20,691 | 49.1 | 21,282 | | | | |
| 952 | 2,306 | | | | 21,202 | | | | |
| | | | lle alternative projec | | 22,204 | | | | |
| 996 | 2,328 | 48.8 | 20,961 | 51.7 | | | | | |
| 997 | 2,365 | 49.9 | 21,097 | 54.5 | 23,065 | | | | |
| 998 | 2,405 | 51.1 | 21,231 | 57.6 | 23,952 | | | | |
| 999 | 2,466 | 52.4 | 21,240 | 61.1 | 24,759 | | | | |
| 000 | 2,538 | 53.8 | 21,189 | 64.8 | 25,536 | | | | |
| 001 | 2,596 | 55.1 | 21,216 21,366 | _ | _ | | | | |
| 002 | 2,632 | 56.2 | | _ | _ | | | | |
| | 2,663 | 57.4 | 21,542 | | _ | | | | |
| 003 | | 58.5 | 21,728 | | _ | | | | |
| 004 | 2,693 | | 21,913 | | _ | | | | |
| 005 | 2,725 | 59.7 | , , | _ | | | | | |
| 006 | 2,756 | 60.9 Lov | 22,103 w alternative project | tions — | _ | | | | |
| 00.5 | 2220 | 48.5 | 20,839 | 51.7 | 22,192 | | | | |
| 996 | 2,328 | | 20,755 | 54.7 | 23,123 | | | | |
| 997 | 2,365 | 49.1 | , | | 24,230 | | | | |
| 998 | 2,405 | 49.9 | 20,737 | 58.3 | 25,339 | | | | |
| 999 | 2,466 | 50.9 | 20,638 | 62.5 | | | | | |
| 000 | 2,538 | 2,538 | 52.1 | 20,512 | 67.1 | 26,448 | | | |
| 001 | 2,596 | 53.1 | 20,477 | _ | _ | | | | |
| 002 | 2,632 | 54.2 | 20,581 | _ | | | | | |
| 003 | 2,663 | 55.2 | 20,731 | _ | _ | | | | |
| 004 | 2,693 | 56.3 | 20,891 | _ | _ | | | | |
| | 2,725 | 57.4 | 21,059 | _ | _ | | | | |
| 005 | 2,756 | 58.5 | 21,234 | <u> </u> | _ | | | | |
| 006 | 2,730 | | th alternative projec | etions | | | | | |
| 996 | 2,328 | 48.9 | 21,026 | 51.7 | 22,225 | | | | |
| 997 | 2,365 | 50.4 | 21,300 | 54.7 | 23,123 | | | | |
| 998 | 2,405 | 51.9 | 21,576 | 57.7 | 24,001 | | | | |
| 999 | 2,466 | 53.4 | 21,641 | 61.0 | 24,728 | | | | |
| | · | 55.0 | 21,654 | 64.6 | 25,442 | | | | |
| 000 | 2,538 | | 21,714 | | | | | | |
| 001 | 2,596 | 56.4 | | _ | | | | | |
| 002 | 2,632 | 57.6 | 21,896 | | _ | | | | |
| | 2,663 | 58.8 | 22,099 | _ | _ | | | | |
| 2004 | 2,693 | 60.1 | 22,300 | _ | _ | | | | |
| 2005 | 2,725 | 61.3 | 22,513 | _ | _ | | | | |
| 2006 | 2,756 | 62.6 | 22,730 | _ | | | | | |

 $^{^{\}rm I}$ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.



² Projected.

[—]Projections in current dollars are not shown after 2000 due to the uncertain behavior of inflation over the long term.

State-Level Projections



Map of the United States, by region





Chapter 8

Public Elementary and Secondary Enrollment

Public elementary and secondary school enrollment is projected to rise between 1994 and the year 2006, but growth will vary widely across the Nation (table 45 and figure 62). Enrollment will increase most rapidly in the Western and Southern regions, where public school enrollment is expected to rise 21 percent and 10 percent, respectively. An increase of 4 percent is projected for the Northeastern region, while a smaller increase of 3 percent is expected in the Midwestern region (table 46 and figure 63).

Public School Enrollment

Between 1994 and the year 2006, public school enrollment is expected to increase, but growth will vary across the Nation. The Northeast will have enrollment increases in most states. The most notable increase will occur in New Jersey (14 percent). Smaller increases will occur in Connecticut (4 percent), Massachusetts (1 percent), New York (5 percent), and Rhode Island (1 percent). Maine is projected to show a decrease of 6 percent and Vermont will decline by 2 percent. Over the projection period, enrollment will grow between 1994 and 2000 in most states, while it will decline between 2000 and 2006.

In the Midwest, enrollment changes will vary across the region between 1994 and 2006. Increases are projected for Illinois (7 percent), Indiana (7 percent), Kansas (3 percent), Michigan (6 percent), and Ohio (1 percent). Decreases are projected for Iowa (3 percent), Minnesota (1 percent), North Dakota (8 percent), South Dakota (1 percent), and Wisconsin (1 percent). Most of the growth in the states will occur between 1994 and 2000.

Enrollment increases are projected for many of the Southern states between 1994 and 2006. Increases are projected for Alabama (15 percent), Delaware (28 percent), Florida (11 percent), Georgia (13 percent), Maryland (18 percent), North Carolina (14 percent), South Carolina (11 percent), Texas (12 percent), and Virginia (15 percent). Smaller increases are expected for Arkansas (4 percent), Kentucky (2 percent), Louisiana (1 percent), and Tennessee (7 percent). Decreases in enrollment have been projected for District of Columbia (11 percent) and West Virginia (3 percent). Most of the growth in the states will occur between 1994 and 2000.

All of the states in the West are expected to show increases in enrollment between 1994 and the year 2006.

Increases are expected in Alaska (19 percent), Arizona (13 percent), California (26 percent), Colorado (11 percent), Hawaii (19 percent), Idaho (10 percent), Nevada ((18 percent), New Mexico (14 percent), Oregon (16 percent), Utah (12 percent), and Washington (20 percent) over the projection period. Smaller increases are expected in Montana (1 percent) and Wyoming (7 percent). Of the states in which enrollment is projected to increase between 1994 and 2006, enrollment will increase more during the 1994—2000 period and then increase at a slower rate during the 2000–2006 period.

Elementary Enrollment

Between 1994 and 2006, public elementary school enrollment in kindergarten through grade 8 (K-8) is expected to increase 5 percent. Increases in elementary enrollment are expected to occur in most states across the Nation. These expected increases in elementary enrollment are a reflection of immigration and the rising number of births beginning in 1977, rather than changes in the attendance rates of young children. The NCES projections do not account for enrollment increases that may be caused by changing state and local policies about the provision of prekindergarten and kindergarten programs. Expansion of these programs would lead to higher enrollments at the elementary school level.

Elementary enrollment is expected to show a decrease of 2 percent in the Northeast between 1994 and 2006. Decreases are projected for Connecticut (1 percent), Maine (12 percent), Massachusetts (8 percent), New Hampshire (9 percent), New York (1 percent), Pennsylvania (5 percent), Rhode Island (7 percent), and Vermont (6 percent). An increase is projected for New Jersey (8 percent). Between 1994 and 2000, enrollment will increase in most states, while enrollment is projected to decrease between 2000 and 2006.

A slight decrease in elementary enrollment has been projected for the Midwestern region. Between 1994 and 2006, enrollment in the Midwest is projected to decrease by 1 percent. Nine of the twelve states in this region are projected to show decreases. These will occur in Iowa (6 percent), Kansas (0.3 percent), Minnesota (7 percent), Missouri (4 percent), Nebraska (4 percent), North Dakota (13 percent), Ohio (3 percent), South Dakota (4 percent),



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and Wisconsin (6 percent). Increases are expected in Illinois (4 percent), Indiana (5 percent), and Michigan (2 percent).

An increase of 6 percent is expected for the Southern region between 1994 and 2006. Increases are expected in Alabama (15 percent), Delaware (28 percent), Georgia (9 percent), Maryland (12 percent), North Carolina (8 percent), South Carolina (7 percent), Texas (8 percent), and Virginia (9 percent). Smaller increases are projected for Arkansas (2 percent), Florida (4 percent), Kentucky (2 percent), and Tennessee (3 percent). A sizable decrease is projected for District of Columbia (22 percent). Other decreases are expected in Mississippi (1 percent), Oklahoma (4 percent), and West Virginia (2 percent). Most of the growth in the states will occur between 1994 and 2000.

Elementary enrollment in the Western states is expected to rise between 1994 and 2006, an increase of 15 percent. Over the projection period, enrollment increases are anticipated for Alaska (13 percent), California (20 percent), Hawaii (18 percent), Nevada (10 percent), New Mexico (12 percent), Oregon (12 percent), Utah (13 percent), and Washington, 14 percent). Other enrollment increases are projected for Arizona (8 percent), Colorado (4 percent), Idaho (7 percent), and Wyoming (6 percent). A decrease is projected for Montana (1 percent). Most of the growth in the states will occur between 1994 and 2000.

High School Enrollment

Between 1994 and 2006, enrollment in public high schools (grades 9 through 12) is expected to increase by 22 percent. Over the projection period, enrollment increases are projected in all of the regions.

Between 1988 and 1994, high school enrollment in the Northeast declined by less than 1 percent. Over the projection period, it will increase by 10 percent between 1994 and 2000, and then increase another 9 percent between 2000 and 2006. Between 1994 and 2006, increases are projected in all states in the Northeast. Increases are expected in Connecticut (21 percent), Maine (8 percent), Massachusetts (27 percent), New Hampshire (25 percent), New Jersey (30 percent), New York (17 percent), Pennsylvania (14 percent), Rhode Island (23 percent), and Vermont (9 percent). Most of the growth in the states will occur between 1994 and 2000.

The Midwestern region is expected to show an increase of 11 percent in high school enrollment between 1994 and 2006. Increases are projected for all of the states. Increases are expected in Illinois (15 percent), Indiana (12 percent), Kansas (11 percent), Michigan (14 percent), Minnesota (12 percent), Missouri (11 percent), Nebraska (10 percent), Ohio (10 percent), and Wisconsin (9 percent). Smaller increases are projected in Iowa (3 percent), North Dakota (3 percent), and South Dakota (5 percent). During the projection period, all of the states are projected to increase between 1994 and 2000, while six of the states will decline between 2000 and 2006.

Between 1994 and 2006, public high school enrollment in the South is projected to increase by 21 percent. Over the projection period, increases are expected in Delaware (29 percent), District of Columbia (23 percent), Florida (31 percent), Georgia (25 percent), Maryland (34 percent), North Carolina (30 percent), South Carolina (19 percent), Tennessee (19 percent), Texas (21 percent), and Virginia (32 percent). Other increases are expected for Alabama (15 percent), Arkansas (10 percent), and Oklahoma (12 percent). Smaller increases are projected for Kentucky (3 percent), Louisiana (6 percent), and Mississippi (4 percent). West Virginia will decline by 6 percent.

The Western region's public high school enrollment is expected to increase by 35 percent between 1994 and 2006. Between 1994 and 2006 particularly large increases have been projected for Alaska (34 percent), Arizona (29 percent), California (44 percent), Colorado (30 percent), Hawaii (20 percent), Nevada (41 percent), New Mexico (19 percent), Oregon (27 percent), and Washington (35 percent). Smaller increases are expected for Idaho (15 percent), Montana (8 percent), Utah (11 percent), and Wyoming (9 percent). Most of the growth in the states will occur between 1994 and 2000.



Figure 62 Percent change in grades K-12 enrollment in public schools, by state: Fall 1994 to Fall 2006



Figure 63 Percent change in public K-12 enrollment, by region: Fall 1994 to fall 2006

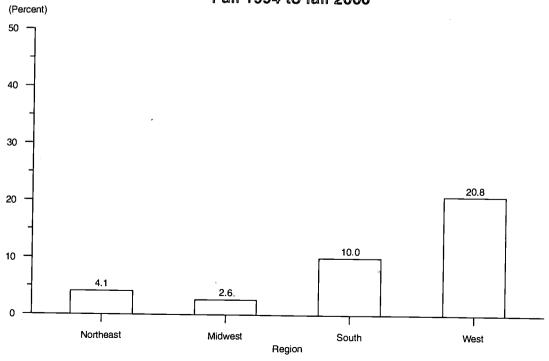




Figure 64

Percent change in grades K-8 enrollment in public schools, by state:

Fall 1994 to fall 2006



Percent change in public K-8 enrollment, by region:
Fall 1994 to fall 2006

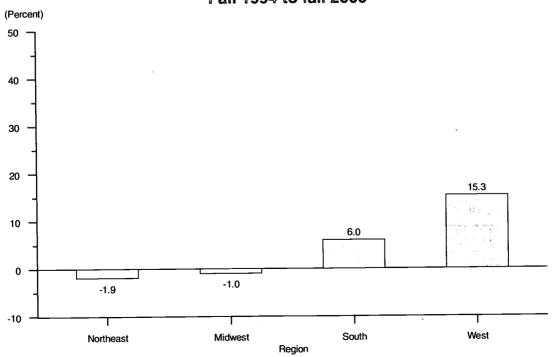




Figure 66 Percent change in grades 9-12 enrollment in public schools, by state: Fall 1994 to fall 2006



Figure 67 Percent change in public 9-12 enrollment, by region: Fall 1994 to fall 2006

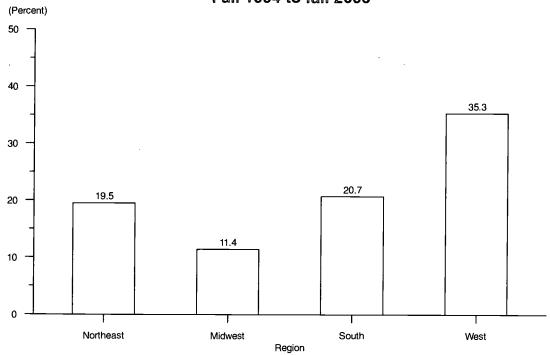




Table 45.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1988 to fall 2006

(In thousands)

| | | | Actu | ıal | | | | Projec | ted | |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Region and state | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| United States | 40,189 | 40,543 | 41,217 | 42,047 | 42,816 | 40,044 | 44,230 | 45,076 | 45,885 | 46,524 |
| Northeast | 7,208 | 7,200 | 7,282 | 7,407 | 7,526 | 7,654 | 7,799 | 7,930 | 8,055 | 8,152 |
| Connecticut | 461 | 462 | 469 | 481 | 488 | 496 | 511 | 519 | 527 | 532 |
| Maine | 213 | 214 | 215 | 216 | 216 | 217 | 219 | 219 | 219 | 218 |
| Massachusetts | 823 | 826 | 834 | 846 | 860 | 878 | 899 | 915 | 930 | 943 |
| New Hampshire | 169 | 172 | 173 | 177 | 181 | 185 | 191 | 194 | 196 | 198 |
| New Jersey | 1,081 | 1,076 | 1,090 | 1,110 | 1,131 | 1,151 | 1,173 | 1,199 | 1,229 | 1,255 |
| New York | 2,574 | 2,566 | 2,598 | 2,644 | 2,690 | 2,734 | 2,771 | 2,817 | 2,862 | 2,895 |
| Pennsylvania | 1,660 | 1,655 | 1,668 | 1,693 | 1,718 | 1,744 | 1,781 | 1,809 | 1,832 | 1,848 |
| Rhode Island | 134 | 136 | 139 | 142 | 144 | 146 | 150 | 152 | 154 | 156 |
| Vermont | 93 | 95 | 96 | 97 | 99 | 103 | 104 | 105 | 106 | 106 |
| Midwest | 9,846 | 9,849 | 9,944 | 10,080 | 10,198 | 10,298 | 10,425 | 10,561 | 10,666 | 10,742 |
| Illinois | 1,795 | 1,797 | 1,821 | 1,848 | 1,874 | 1,893 | 1,907 | 1,937 | 1,966 | 1,989 |
| Indiana | 961 | 954 | 955 | 957 | 961 | 966 | 970 | 980 | 990 | 999 |
| Iowa | 478 | 478 | 484 | 491 | 495 | 499 | 500 | 505 | 507 | 508 |
| Kansas | 427 | 431 | 437 | 445 | 452 | 458 | 470 | 477 | 481 | 484 |
| Michigan | 1,583 | 1,577 | 1,584 | 1,594 | 1,604 | 1,599 | 1,632 | 1,657 | 1,674 | 1,686 |
| Minnesota | 727 | 740 | 756 | 774 | 794 | 810 | 828 | 841 | 849 | 854 |
| Missouri | 807 | 808 | 817 | 843 | 859 | 876 | 882 | 891 | 898 | 902 |
| Nebraska | 269 | 271 | 274 | 280 | 282 | 285 | 288 | 291 | 294 | 295 |
| North Dakota | 119 | 118 | 118 | 118 | 119 | 119 | 119 | 118 | 118 | 117 |
| Ohio | 1,779 | 1,764 | 1,771 | 1,784 | 1,795 | 1,807 | 1,817 | 1,832 | 1,846 | 1,857 |
| South Dakota Wisconsin | 127 775 | 127 783 | 129 798 | 132 815 | 135 829 | 143 844 | 146 867 | 148 884 | 150 894 | 151 901 |
| | | | | | | | | | | |
| South | 14,491 725 | 14,605 724 | 14,807 722 | 15,081 722 | 15,355 731 | 15,592 734 | 15,832 733 | 16,106 743 | 16,384 753 | 16,598 762 |
| AlabamaArkansas | 436 | 435 | 436 | 439 | 441 | 444 | 447 | 451 | 454 | 456 |
| Delaware | 97 | 98 | 100 | 102 | 104 | 106 | 108 | 112 | 117 | 121 |
| District of Columbia | 85 | 81 | 81 | 81 | 82 | 81 | 81 | 79 | 78 | 76 |
| Florida | 1,721 | 1,790 | 1,862 | 1,932 | 1,981 | 2,041 | 2,109 | 2,173 | 2,235 | 2,279 |
| Georgia | 1,108 | 1,127 | 1,152 | 1,178 | 1,207 | 1,235 | 1,267 | 1,296 | 1,324 | 1,346 |
| Kentucky | 638 | 631 | 636 | 646 | 655 | 655 | 656 | 660 | 662 | 664 |
| Louisiana | 787 | 783 | 785 | 794 | 798 | 801 | 793 | 794 | 795 | 794 |
| Maryland | 689 | 699 | 715 | 736 | 752 | 773 | 793 792 | 816 | 838 | 857 |
| Mississippi | 503 | 502 | 502 | 504 | 507 | 506 | 504 | 505 | 507 | 507 |
| North Carolina | 1,083 | 1,081 | 1,087 | 1,098 | 1,114 | 1,133 | 1,159 | 1,181 | 1,207 | 1,229 |
| Oklahoma | 580 | 579 | 579 | 588 | 597 | 604 | 610 | 615 | 619 | 622 |
| South Carolina | 616 | 616 | 622 | 627 | 640 | 644 | 647 | 658 | 668 | 676 |
| Tennessee | 822 | 820 | 825 | 834 | 854 | 867 | 880 | 892 | 905 | 916 |
| Texas | 3,284 | 3,329 | 3,383 | 3,464 | 3,542 | 3,608 | 3,663 | 3,725 | 3,791 | 3,839 |
| Virginia | 982 | 985 | 999 | 1,016 | 1,032 | 1,045 | 1,071 | 1,097 | 1,122 | 1,146 |
| West Virginia | 336 | 328 | 322 | 320 | 318 | 314 | 312 | 310 | 309 | 308 |
| West | 8,644 | 8,889 | 9,184 | 9,479 | 9,736 | 9,932 | 10,174 | 10,479 | 10,780 | 11,032 |
| Alaska | 106 | 109 | 114 | 119 | 122 | 126 | 129 | 133 | 137 | 140 |
| Arizona | 575 | 608 | 640 | 657 | 673 | 709 | 741 | 765 | 789 | 808 |
| California | 4,618 | 4,772 | 4,950 | 5,107 | 5,249 | 5,329 | 5,440 | 5,626 | 5,815 | 5,976 |
| Colorado | 560 | 563 | 574 | 593 | 613 | 625 | 641 | 655 | 670 | 683 |
| Hawaii | 167 | 169 | 172 | 175 | 177 | 180 | 193 | 200 | 205 | 209 |
| Idaho | 215 | 215 | 221 | 226 | 232 | 237 | 240 | 243 | 246 | 248 |
| Montana | 152 | 151 | 153 | 156 | 160 | 163 | 166 | 167 | 168 | 168 |
| Nevada | 176 | 187 | 201 | 212 | 223 | 236 | 250 | 260 | 270 | 279 |
| New Mexico | 292 | 296 | 302 | 309 | 316 | 322 | 332 | 341 | 349 | 355 |
| Oregon | 462 | 472 | 472 | 499 | 510 | 517 | 526 | 538 | 549 | 558 |
| Utah | 431 | 439 | 447 | 456 | 464 | 471 | 475 | 480 | 485 | 487 |
| Washington | 791 | 810 | 840 | | 896 | 916 | 940 | 969 | 996 | 1,020 |
| Wyoming | 98 | 97 | 98 | 102 | 100 | 101 | 101 | 102 | 102 | 102 |



Table 45.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1988 to fall 2006—Continued

(In thousands)

| Degion and state | | | | | Projected | | | | |
|----------------------|--------|--------|--------|---------------|----------------|--------------|--------------|--------------|--------------|
| Region and state | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| United States | 46,988 | 47,365 | 47,656 | 47,891 | 48,102 | 48,234 | 48,365 | 48,497 | 48,528 |
| Northeast | 8,206 | 8,240 | 8,253 | 8,251 | 8,241 | 8,212 | 8,194 | 8,170 | 8,121 |
| Connecticut | 537 | 539 | 540 | 541 | 540 | 539 | 538 | 537 | 534 |
| Maine | 217 | 215 | 213 | 211 | 210 | 208 | 207 | 206 | 205 |
| Massachusetts | 948 | 949 | 948 | 945 | 941 | 935 | 928 | 921 | 911 |
| New Hampshire | 198 | 198 | 197 | 195 | 194 | 193 | 193 | 192 | 191 |
| New Jersey | 1,274 | 1,291 | 1,305 | 1,317 | 1,326 | 1,332 | 1,337 | 1,339 | 1,337 |
| New York | 2,915 | 2,928 | 2,935 | 2,936 | 2,934 | 2,925 | 2,921 | 2,914 | 2,897 |
| Pennsylvania | 1,855 | 1,857 | 1,854 | 1,846 | 1,837 | 1,824 | 1,815 | 1,805 | 1,791 |
| Rhode Island | 156 | 156 | 156 | 155 | 154 | 154 | 153 | 152 | 151 |
| Vermont | 106 | 106 | 105 | 105 | 104 | 103 | 103 | 103 | 102 |
| Midwest | 10,776 | 10,797 | 10,803 | 10,797 | 10,789 | 10,764 | 10,744 | 10,731 | 10,699 |
| Illinois | 2,002 | 2,014 | 2,024 | 2,032 | 2,037 | 2,038 | 2,041 | 2,044 | 2,042 |
| Indiana | 1,006 | 1,012 | 1,019 | 1,025 | 1,032 | 1,037 | 1,037 | 1,038 | 1,036 |
| lowa | 505 | 503 | 500 | 497 | 495 | 492 | 489 | 487 | 485 |
| Kansas | 486 | 486 | 486 | 485 | 484 | 483 | 483 | 484 | 485 |
| Michigan | 1,699 | 1,709 | 1,715 | 1,720 | 1,724 | 1,724 | 1,725 | 1,725 | 1,723 |
| Minnesota | 855 | 853 | 849 | 843 | 837 | 829 | 824 | 821 | 816 |
| Missouri | 902 | 901 | 899 | 895 | 892 | 888 | 885 | 884 | 881 |
| Nebraska | 295 | 294 | 293 | 293 | 292 | 291 | 290 | 290 | 289 |
| North Dakota | 115 | 114 | 113 | 112 | 111 | 111 | 110 | 110 | 109 |
| Ohio | 1,859 | 1,861 | 1,861 | 1,861 | 1,861 | 1,857 | 1,850 | 1,844 | 1,833 |
| South Dakota | 150 | 150 | 148 | 147 | 146 | 1,657 | 1,830 | 1,644 | 1,833 |
| Wisconsin | 901 | 899 | 895 | 000 | . 880 | 870 | 865 | 861 | 856 |
| South | 16,769 | 16,910 | 17,029 | | | | | | |
| Alabama | 773 | 785 | 797 | 17,129 809 | 17,224 | 17,293 | 17,347 | 17,398 | 17,414 |
| Arkansas | 458 | 459 | 461 | | 820 | 830 | 836 | 841 | 844 |
| Delaware | 124 | 127 | 130 | 462 133 | 464 | 465 | 465 | 466 | 466 |
| District of Columbia | 74 | 73 | 72 | 71 | 136 71 | 138 | 139 | 139 | 138 |
| Florida | 2,309 | 2,328 | 2,338 | 2,341 | | 72 | 72 | 72 | 72 |
| Georgia | 1,364 | 1,379 | 1,393 | 1,404 | 2,339 1,414 | 2,332 | 2,334 | 2,336 | 2,333 |
| Kentucky | 666 | 668 | 669 | 670 | • | 1,422 | 1,429 | 1,434 | 1,436 |
| Louisiana | 793 | 793 | 793 | 793 | 672 795 | 672 798 | 672 | 672 | 670 |
| Maryland | 874 | 888 | 899 | 908 | 915 | 921 | 799 | 801 | 804 |
| Mississippi | 505 | 504 | 503 | 503 | 504 | 505 | 926 | 929 | 931 |
| North Carolina | 1,249 | 1,267 | 1,282 | 1,296 | 1,307 | | 505 | 506 | 506 |
| Oklahoma | 621 | 619 | 616 | 614 | | 1,315 | 1,318 | 1,320 | 1,316 |
| South Carolina | 682 | 688 | 695 | 700 | 613 706 | 612 712 | 613 | 614 | 615 |
| Tennessee | 924 | 931 | 936 | 941 | 945 | 948 | 714 | · 716 | 716 |
| Texas | 3,881 | 3,915 | 3,945 | 3,971 | 3,998 | | 948 | 948 | 945 |
| Virginia | 1,165 | 1,181 | 1,195 | 1,208 | 1,218 | 4,022 | 4,046 | 4,070 | 4,090 |
| West Virginia | 306 | 305 | 304 | 304 | 304 | 1,226 304 | 1,230 304 | 1,233 303 | 1,232 302 |
| | | | | | | | | | |
| West | 11,238 | 11,418 | 11,572 | 11,713 | 11,848 | 11,964 | 12,080 | 12,199 | 12,294 |
| Alaska | 143 | 145 | 147 | 149 | 150 | 151 | 152 | 153 | 153 |
| Arizona | 820 | 828 | 833 | 835 | 834 | 831 | 835 | 838 | 840 |
| California | 6,112 | 6,234 | 6,343 | 6,447 | 6,549 | 6,642 | 6,724 | 6,808 | 6,878 |
| Colorado Hawaii | 692 | 699 | 704 | 707 | 710 | 711 | 711 | 711 | 710 |
| Idaho | 213 | 215 | 217 | 218 | 219 | 219 | 223 | 226 | 229 |
| | 250 | 252 | 253 | 255 | 257 | 258 | 260 | 262 | 263 |
| Montana | 169 | 168 | 168 | 168 | 167 | 167 | 167 | 168 | 168 |
| Nevada | 285 | 290 | 293 | 294 | 294 | 292 | 293 | 294 | 294 |
| New Mexico | 358 | 361 | 364 | 366 | 368 | 370 | 373 | 376 | 379 |
| Oregon | 566 | 574 | 580 | 586 | 592 | 597 | 601 | 606 | 610 |
| Utah | 490 | 493 | 497 | 502 | 508 | 514 | 520 | 527 | 532 |
| Washington | 1,039 | 1,056 | 1,071 | 1,085 | 1,097 | 1,108 | 1,115 | 1,123 | 1,129 |
| Wyoming | 101 | 102 | 102 | 102 | 103 | 104 | 105 | 107 | 108 |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys (This table was prepared September 1995.)



Table 46.—Percent change in grades K-12 enrollment in public schools, by region and state, with projections: Fall 1988 to fall 2006

| " | Actual | | Projected | |
|-------------------------|--------------|--------------|--------------|--------------|
| Region and state - | 1988 to 1994 | 1994 to 2000 | 2000 to 2006 | 1994 to 2006 |
| Jnited States | 10.1 | 7.7 | 1.8 | 9. |
| Northeast | 8.2 | 5.8 | -1.6 | 4. |
| Connecticut | 10.9 | 5.8 | -1.2 | 4. |
| Maine | 2.7 | -2.4 | -3.9 | -6. |
| Massachusetts | 9.2 | 5.4 | -3.9 | 1. |
| New Hampshire | 12.5 | 3.2 | -2.8 | 0. |
| | 8.5 | 11.3 | 2.5 | 14. |
| New Jersey | . 7.7 | 5.9 | -1.3 | 4. |
| New York | 7.7 | 4.1 | -3.4 | 0. |
| Pennsylvania | | 3.9 | -2.9 | 0. |
| Rhode Island Vermont | 12.2 11.7 | 0.8 | -2.9 | -2 |
| | 5.9 | 3.6 | -1.0 | 2 |
| Aidwest | 6.3 | 6.1 | 0.9 | 7 |
| Illinois | 0.9 | 5.1 | 1.7 | 6 |
| Indiana | | | | -3 |
| lowa | 4.5 | 0.1 | -3.2 | |
| Kansas | 10.2 | 3.3 | -0.2 | 3 |
| Michigan | 3.1 | 5.1 | 0.4 | 5 |
| Minnesota | 13.8 | 2.6 | -3.8 | -1 |
| Missouri | 9.3 | 2.0 | -2.0 | (|
| Nebraska | 6.8 | 2.0 | -1.6 | (|
| North Dakota | 0.2 | -5.3 | -2.9 | -8 |
| Ohio | 2.1 | 2.4 | -1.5 | (|
| South Dakota | 14.8 | 1.9 | -3.2 | - |
| Wisconsin | 11.9 | 3.1 | -4.4 | - |
| outh | 9:3 | 7.6 | 2.3 | 10 |
| Alabama | 1.2 | 8.6 | 5.9 | 15 |
| Arkansas | 2.5 | 3.1 | 1.0 | 4 |
| | 11.5 | 20.8 | 6.3 | 28 |
| Delaware | -4.6 | -11.1 | -0.3 | -1 |
| District of Columbia | | 10.9 | -0.3 | 10 |
| Florida | 22.6 | | | 1: |
| Georgia | 14.3 | 10.0 | 3.1 | |
| Kentucky | 3.0 | 2.0 | 0.1 | |
| Louisiana | 0.8 | 0.0 | 1.4 | |
| Maryland | 15.0 | 13.4 | 3.6 | 1 |
| Mississippi | 0.2 | -0.2 | 0.4 | (|
| North Carolina | 7.0 | 10.7 | 2.6 | 1; |
| Oklahoma | 5.1 | 1.0 | -0.2 | (|
| South Carolina | 5.1 | 7.3 | 3.1 | 10 |
| Tennessee | 7.1 | 6.4 | 0.9 | |
| Texas | 11.5 | 7.7 | 3.7 | 1 |
| Virginia | 9.0 | 11.6 | 3.1 | 1: |
| West Virginia | -7.2 | -2.3 | -0.8 | -: |
| Vest | 17.7 | 13.7 | 6.2 | 20 |
| Alaska | 21.0 | 14.2 | 4.1 | 1 |
| Arizona | 29.0 | 12.3 | 0.9 | 1 |
| California | 17.8 | 16.6 | 8.4 | 2 |
| | 14.5 | 9.8 | 0.9 | 1 |
| Colorado | | 12.3 | 5.7 | i I |
| Hawaii | 15.4 | | | , |
| Idaho | 11.8 | 5.6 | 3.8 | |
| Montana | 8.9 | 1.4 | -0.1 | |
| Nevada | 41.4 | 17.3 | 0.5 | 1 |
| New Mexico | 13.7 | 9.4 | 4.2 | 1 |
| Oregon | 13.9 | 10.3 | 5.2 | 1 |
| Utah | 10.1 | 4.7 | 7.1 | 1 |
| Washington | 18.9 | 14.0 | 5.4 | 2 |
| Wyoming | 3.3 | 0.8 | 6.1 | |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: US Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1995.)



Table 47.—Enrollment in grades K-8 in public schools, by region and state, with projections: Fall 1988 to fall 2006

(In thousands)

| Design and state | | | Actu | ıal | | | | Projec | ted | |
|----------------------------|------------|------------|------------|----------------|----------------|----------------|------------|------------|------------|------------|
| Region and state | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| United States | 28,501 | 29,152 | 29,878 | 30,506 | 31,081 | 28,083 | 31,864 | 32,383 | 32,837 | 33,226 |
| Northeast | 4,989 | 5,077 | 5,189 | 5,293 | 5,387 | 5,486 | 5,585 | 5,675 | 5,751 | 5,812 |
| Connecticut | 332 | 338 | 347 | 355 | 362 | 369 | 378 | 384 | 389 | 393 |
| Maine | 149 | 152 | 155 | 157 | 156 | 157 | 157 | 157 | 156 | 154 |
| Massachusetts | 578 | 590 | 604 | 616 | 630 | 646 | 661 | 671 | 680 | 687 |
| New Hampshire | 120 | 124 | 126 | 130 | 133 | 136 | 140 | 141 | 141 | 141 |
| New Jersey | 755 | 766 | 784 | 801 | 818 | 844 | 858 | 880 | 902 | 923 |
| New York | 1,761 | 1,790 | 1,828 | 1,862 | 1,893 | 1,921 | 1,953 | 1,987 | 2,018 | 2,041 |
| Pennsylvania | 1,133 | 1,148 | 1,172 | 1,195 | 1,216 | 1,233 | 1,254 | 1,269 | 1,280 | 1,287 |
| Rhode IslandVermont | 95 67 | 98 69 | 102 71 | 104 73 | 106 74 | 107 75 | 109 75 | 111 76 | 111 75 | 112 75 |
| Midwest | 6,894 | 6,997 | 7,130 | | | | | | | |
| Illinois | 1,259 | 1,280 | 1,310 | 7,245 1,328 | 7,312 1,345 | 7,357 1,356 | 7,377 | 7,445 | 7,486 | 7,525 |
| Indiana | 668 | 671 | 676 | 676 | 677 | 679 | 1,357 | 1,381 | 1,404 | 1,424 |
| Iowa | 334 | 338 | 345 | 348 | 349 | 348 | 675 345 | 681 346 | 686 344 | 693 |
| Kansas | 307 | 314 | 320 | 325 | 328 | 330 | 343 | 346 | 344 | 343 334 |
| Michigan | 1,114 | 1,128 | 1,145 | 1,159 | 1,165 | 1,160 | 1,179 | 1,195 | 1,204 | 1,212 |
| Minnesota | 511 | 529 | 546 | 557 | 569 | 577 | 583 | 586 | 585 | 584 |
| Missouri | 568 | 576 | 588 | 612 | 622 | 632 | 629 | 633 | 636 | 635 |
| Nebraska | 191 | 194 | 198 | 201 | 202 | 203 | 203 | 203 | 203 | 203 |
| North Dakota | 85 | 85 | 85 | 85 | 85 | 84 | 83 | 82 | 80 | .79 |
| Ohio | 1,229 | 1,239 | 1,258 | 1,277 | 1,284 | 1,290 | 1,283 | 1,289 | 1,294 | 1,302 |
| South Dakota | 93 | 94 | 95 | 96 | 98 | 102 | 103 | 103 | 103 | 103 |
| Wisconsin | 535 | 549 | 566 | 580 | 588 | 596 | 603 | 610 | 612 | 612 |
| South | 10,413 | 10,617 | 10,859 | 11,068 | 11,285 | 11,441 | 11,537 | 11,706 | 11,867 | 12,002 |
| Alabama | 522 | 526 | 527 | 526 | 534 | 536 | 530 | 537 | 545 | 554 |
| Arkansas | 309 | 311 | 314 | 315 | 318 | 318 | 317 | 319 | 320 | 322 |
| Delaware | 69 | 71 | 73 | 75 | 76 | 77 | 78 | 81 | 84 | 87 |
| District of Columbia | 62 | 61 | 61 | 61 | 61 | 61 | 62 | 59 | 58 | 56 |
| Florida | 1,232 | 1,303 | 1,370 | 1,428 | 1,470 | 1,515 | 1,564 | 1,605 | 1,638 | 1,659 |
| Georgia | 808 | 828 | 849 | 868 | 892 | 910 | 927 | 945 | 963 | 978 |
| Kentucky | 452 | 452 | 459 | 466 | 470 | 467 | 464 | 466 | 468 | 470 |
| Louisiana | 581 | 582 | 586 | 591 | 591 | 587 | 576 | 576 | 574 | 573 |
| Maryland | 489 | 507 | 527 | 543 | 556 | 569 | 581 | 598 | 612 | 624 |
| Mississippi North Carolina | 368 | 370 | 372 | 370 | 370 | 369 | 364 | 362 | 362 | 362 |
| Oklahoma | 761 414 | 770 421 | 783 | 795 | 811 | 828 | 843 | 861 | 879 | 896 |
| South Carolina | 438 | 421 444 | 425 | 432 | 439 | 441 | 441 | 442 | 441 | 439 |
| Tennessee | 586 | 590 | 452 598 | 456 | 467 | 467 | 466 | 473 | 480 | 487 |
| Texas | 2,392 | 2,443 | 2,511 | 605 2,575 | 621 | 630 | 634 | 642 | 651 | 659 |
| Virginia | 699 | 712 | 728 | 741 | 2,634 758 | 2,681 | 2,699 | 2,729 | 2,764 | 2,790 |
| West Virginia | 232 | 227 | 224 | 222 | 219 | 767 216 | 781 212 | 800 212 | 817 211 | 833 211 |
| Vest | 6,207 | 6,461 | 6,700 | 6,900 | 7,096 | 7,231 | 7,365 | 7,557 | 7,733 | 7,886 |
| Alaska | 79 | 82 | 85 | 89 | 92 | 94 | 95 | 98 | 100 | 102 |
| Arizona | 418 | 451 | 479 | 490 | 498 | 526 | 545 | 559 | 573 | 584 |
| California | 3,317 | 3,470 | 3,615 | 3,720 | 3,845 | 3,904 | 3,975 | 4,104 | 4,229 | 4,334 |
| Colorado | 400 | 408 | 420 | 436 | 451 | 460 | 469 | 475 | 481 | 486 |
| Hawaii | 120 | 123 | 123 | 127 | 129 | 132 | 139 | 143 | 146 | 148 |
| Idaho | 156 | 157 | 160 | 161 | 165 | 167 | 167 | 168 | 169 | 170 |
| Montana | 110 | 110 | 111 | 113 | 115 | 117 | 117 | 117 | 116 | 116 |
| Nevada | 127 | 137 | 150 | 158 | 165 | 175 | 184 | 190 | 196 | 200 |
| New Mexico | 200 | 203 | 208 | 213 | 217 | 226 | 230 | 233 | 236 | 240 |
| Oregon | 328 | 340 | 340 | 359 | 365 | 368 | 373 | 381 | 386 | 391 |
| Utah | 319 | 324 | 325 | 327 | 330 | 330 | 328 | 330 | 330 | 332 |
| Washington | 563 | 586 | 613 | 633 | 652 | 660 | 672 | 688 | 702 | 715 |
| Wyoming | 70 | 70 | 71 | 74 | 72 | 71 | 70 | 70 | 70 | 69 |



Table 47.—Enrollment in grades K-8 in public schools, by region and state, with projections: Fall 1988 to fall 2006—Continued

(In thousands)

| Parties as 3 4 4 | | | | 1 | Projected | | | | |
|----------------------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|
| Region and state | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| United States | 33,522 | 33,692 | 33,852 | 34,029 | 34,098 | 34,065 | 33,882 | 33,680 | 33,507 |
| Northeast | 5,838 | 5,835 | 5,822 | 5,806 | 5,767 | 5,710 | 5,634 | 5,555 | 5,477 |
| Connecticut | 395 | 395 | 394 | 393 | 390 | 387 | 382 | 378 | 374 |
| Maine | 152 | 150 | 147 | 146 | 144 | 143 | 141 | 140 | 139 |
| Massachusetts | 685 | 680 | 674 | 668 | 658 | 647 | 634 | 622 | 609 |
| New Hampshire | 140 | 138 | 136 | 135 | 133 | 132 | 130 | 129 | 127 |
| New Jersey | 938 | 948 | 956 | 962 | 962 | 959 | 950 | 940 | 929 |
| New York | 2,053 | 2,055 | 2,054 | 2,051 | 2,039 | 2,021 | 1,994 | 1,964 | 1,937 |
| Pennsylvania | 1,289 | 1,284 | 1,276 | 1,269 | 1,258 | 1,243 | 1,226 | 1,208 | 1,190 |
| Rhode Island | 112 | 111 | 110 | 109 | 108 | 106 | 105 | 103 | 101 |
| Vermont | 74 | 74 | 73 | 73 | 73 | 72 | 71 | 71 | 71 |
| Midwest | 7,546 | 7,539 | 7,534 | 7,539 | 7,527 | 7,491 | 7,427 | 7,367 | 7,305 |
| Illinois | 1,434 | 1,439 | 1,443 | 1,449 | 1,450 | 1,445 | 1,435 | 1,421 | 1,407 |
| Indiana | 700 | 707 | 712 | 719 | 723 | 724 | 719 | 714 | 707 |
| Iowa | 342 | 340 | 338 | 337 | 336 | 334 | 330 | 328 | 325 |
| Kansas | 335 | 334 | 334 | 335 | 335 | 335 | 334 | 334 | 334 |
| Michigan | 1,222 | 1,226 | 1,230 | 1,234 | 1,235 | 1,232 | 1,222 | 1,214 | 1,207 |
| Minnesota | 581 | 576 | 570 | 566 | 562 | 556 | 550 | 546 | 542 |
| Missouri | 634 | 630 | 626 | 623 | 620 | 616 | 610 | 606 | 602 |
| Nebraska | 202 | 201 | 201 | 201 | 200 | 200 | 198 | 197 | 196 |
| North Dakota | 77 | 76 | 75 | 74 | 74 | 74 | 73 | 73 | 73 |
| Ohio | 1,306 | 1,304 | 1,303 | 1,303 | 1,300 | 1,292 | 1,278 | 1,264 | 1,248 |
| South Dakota | 103 | 102 | 102 | 101 | 101 | 100 | 100 | 99 | 98 |
| Wisconsin | 610 | 605 | 599 | 595 | 590 | 584 | 578 | 572 | 567 |
| South | 12,118 | 12,192 | 12,268 | 12,352 | 12,396 | 12,405 | 12,350 | 12,284 | 12,231 |
| Alabama | 566 | 577 | 587 | 597 | 605 | 611 | 611 | 610 | 609 |
| Arkansas | 323 | 324 | 326 | 327 | 328 | 329 | 327 | 324 | 322 |
| Delaware | 90 | 93 | 95 | 98 | 100 | 102 | 101 | 100 | 99 |
| District of Columbia | 54 | 52 | 51 | 50 | 50 | 49 | 49 | 48 | 48 |
| Florida | 1,670 | 1,674 | 1,676 | 1,676 | 1,670 | 1,659 | 1,644 | 1,630 | 1,619 |
| Georgia | 993 | 1,004 | 1,014 | 1,022 | 1,026 | 1,027 | 1,022 | 1,016 | 1,013 |
| Kentucky | 474 | 472 | 475 | 479 | 480 | 480 | 477 | 474 | 471 |
| Louisiana | 572 | 570 | 569 | 572 | 574 | 576 | 576 | 575 | 575 |
| Maryland | 635 | 644 | 651 | 657 | 660 | 660` | 657 | 652 | 649 |
| Mississippi | 363 | 363 | 363 | 366 | 367 | 368 | 365 | 363 | 360 |
| North Carolina | 911 | 920 | 928 | 935 | 937 | 934 | 926 | 916 | 907 |
| Oklahoma | 437 | 434 | 432 | 432 | 432 | 431 | 429 | 427 | 426 |
| South Carolina | 493 | 498 | 502 | 507 | 510 | 510 | 507 | 503 | 500 |
| Tennessee | 665 | 668 | 670 | 673 | 674 | 671 | 665 | 659 | 652 |
| Texas | 2,818 | 2,836 | 2,856 | 2,881 | 2,899 | 2,914 | 2,919 | 2,920 | 2,924 |
| Virginia | 844 | 852 | 859 | 866 | 869 | 869 | 862 | 856 | 849 |
| West Virginia | 212 | 213 | 213 | 214 | 215 | 214 | 213 | 211 | 208 |
| West | 8,020 | 8,126 | 8,229 | 8,332 | 8,409 | 8,459 | 8,471 | 8,474 | 8,495 |
| Alaska | 104 | 105 | 106 | 107 | 108 | 108 | 108 | 108 | 108 |
| Arizona | 592 | 596 | 598 | 600 | 600 | 597 | 594 | 590 | 587 |
| California | 4,426 | 4,498 | 4,569 | 4,638 | 4,692 | 4,731 | 4,744 | 4,748 | 4,768 |
| Colorado | 489 | 491 | 493 | 494 | 495 | 494 | 492 | 489 | 486 |
| Hawaii | 150 | 152 | 155 | 157 | 158 | 160 | 161 | 162 | 164 |
| Idaho | 171 | 173 | 174 | . 176 | 177 | 178 | 178 | 179 | 179 |
| Montana | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 |
| | 203 | 205 | 206 | 206 | 206 | 204 | 203 | 202 | 202 |
| Nevada | 243 | 246 | 249 | 252 | 255 | 257 | 257 | 257 | 257 |
| New Mexico | 396 | 400 | 404 | 409 | 412 | 415 | 415 | 416 | 418 |
| Oregon | | 340 | 345 | 351 | 356 | 360 | 363 | 367 | 370 |
| Utah | 336 | 736 | 745 | 755 | 762 | 766 | 766 | 766 | 766 |
| Washington | 726 | | | | 702 | 700 | 73 | 74 | 75 |
| Wyoming | 69 | 69 | 69 | 70 | | 12 | 13 | | |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys. (This table was prepared September 1995.)





Table 48.—Percent change in grades K-8 enrollment in public schools, by region and state, with projections: Fall 1988 to fall 2006

| Region and state - | Actual | Projected | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--|--|--|--|
| Region and state | 1988 to 1994 | 1994 to 2000 | 2000 to 2006 | 1994 to 2006 | | | | |
| United States | 11.8 | 6.2 | -1.0 | 5.: | | | | |
| Northeast | 12.0 | 4.2 | -5.9 | -1.9 | | | | |
| Connecticut | 14.0 | 4.2 | -5.2 | -1.: | | | | |
| Maine | 5.7 | -6.4 | -5.9 | -11.9 | | | | |
| Massachusetts | 14.4 | 2.0 | -9.8 | -7.9 | | | | |
| New Hampshire | 16.5 | -2.2 | -6.7 | -8. | | | | |
| New Jersey | 13.6 | 11.4 | -2.8 | 8.3 | | | | |
| New York | 10.9 | 5.2 | -5.7 | -0.8 | | | | |
| Pennsylvania | 10.7 | 1.8 | -6.7 | -5, | | | | |
| Rhode Island | 14.9 | 0.3 | -7.6 | , -7.4 | | | | |
| Vermont | 12.7 | -2.3 | -3.8 | -6. | | | | |
| Midwest | 7.0 | 2.1 | -3.0 | -1.0 | | | | |
| Illinois | 7.8 | 6.3 | -2.5 | 3. | | | | |
| Indiana | 1.1 | 5.6 | -0.7 | 4.8 | | | | |
| Iowa | 3.2 | -2.0 | -4.0 | -5.9 | | | | |
| Kansas | 9.0 | 0.0 | -0.2 | -0.: | | | | |
| Michigan | 5.9 | 4.3 | -1.9 | 2.3 | | | | |
| Minnesota | 14.0 | -2.2 | -5.0 | -7.0 -7.0 | | | | |
| Missouri | 10.7 | -0.5 | -3.8 | -4.3 | | | | |
| Nebraska | 6.0 | -1.0 | -2.6 | -3.: | | | | |
| North Dakota | -2.4 | -9.9 | -3.0 | -12.6 | | | | |
| Ohio | 4.4 | 1.5 | -4.2 | -2. | | | | |
| South Dakota | 10.8 | -0.8 | -3.2 | -4.0 | | | | |
| Wisconsin | 12.7 | -0.6 | -5.4 | -6.0 | | | | |
| South | 10.8 | 6.3 | -0.3 | 6.0 | | | | |
| Alabama | 1.5 | 10.8 | 3.8 | 15.0 | | | | |
| Arkansas | 2.6 | 2.6 | -1.0 | 13.0 | | | | |
| Delaware | 12.6 | 23.1 | 4.1 | 28.2 | | | | |
| District of Columbia | -0.9 | -17.5 | -5.5 | -22.0 | | | | |
| Florida | 26.9 | 7.2 | -3.4 | 3.6 | | | | |
| Georgia | 14.7 | 9.4 | -0.1 | 9.3 | | | | |
| Kentucky | 2.6 | 2.5 | -1.0 | 1.: | | | | |
| Louisiana | -0.8 | -1.2 | 1.0 | -0.2 | | | | |
| Maryland | 18.8 | 11.9 | -0.3 | 11.6 | | | | |
| Mississippi | -1.1 | -0.1 | -0.9 | -1.0 | | | | |
| North Carolina | 10.8 | 10.1 | -2.3 | 7.6 | | | | |
| Oklahoma | 6.7 | -2.1 | -1.4 | -3.6 | | | | |
| South Carolina | 6.4 | 7.8 | -0.4 | 7.4 | | | | |
| Tennessee | 8.2 | 5.7 | -2.7 | 2.9 | | | | |
| Texas | 12.8 | 5.8 | 2.4 | 8.4 | | | | |
| Virginia | 11.7 | 10.1 | -1.1 | 8.8 | | | | |
| West Virginia | -8.5 | 0.5 | -2.3 | -1.8 | | | | |
| Vest | 18.7 | 11.7 | 3.2 | 15.2 | | | | |
| Alaska | 20.9 | 11.7 | 1.8 | 15.3 | | | | |
| Arizona | 30.6 | 9.7 | -1.9 | 13.4 | | | | |
| California | 19.8 | 14.9 | 4.4 | 7.6 | | | | |
| Colorado | 17.2 | 5.1 | -1.4 | 19.9 | | | | |
| Hawaii | 15.4 | 11.2 | 6.2 | 3.7 | | | | |
| Idaho | 7.6 | 4.3 | 2.7 | 18.2 7.1 | | | | |
| Montana | 7.2 | -1.7 | 0.4 | -1.3 | | | | |
| Nevada | 44.5 | 11.7 | -1.9 | -1.3 9.6 | | | | |
| New Mexico | 14.7 | 8.5 | 3.1 | 9.0 11.9 | | | | |
| Oregon | 13.7 | 8.2 | 3.4 | 11.9 | | | | |
| Utah | 2.8 | 5.2 | 7.2 | | | | | |
| Washington | 19.3 | 11.0 | 2.8 | 12.8 | | | | |
| Wyoming | -0.1 | -1.4 | 7.5 | 14.1 6.0 | | | | |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1995.)



Table 49.—Enrollment in grades 9–12 in public schools, by region and state, with projections: Fall 1988 to fall 2006

(In thousands)

| | | | Actu | Projected | | | | | | |
|------------------------|-------------|------------|------------|-------------|------------|------------|------------|--------------|--------------|--------------|
| Region and state | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| United States | 11,688 | 11,390 | 11,338 | 11,541 | 11,735 | 11,961 | 12,366 | 12,693 | 13,049 | 13,299 |
| Northeast | 2,219 | 2,124 | 2,092 | 2,114 | 2,139 | 2,168 | 2,213 | 2,255 | 2,304 | 2,340 |
| Connecticut | 129 | 123 | 122 | 126 | 127 | 128 | 133 | 135 | 138 | 140 |
| Maine | 64 | 62 | 60 | 60 | 60 | 60 | 61 | 62 | 63 | 64 |
| Massachusetts | 246 | 235 | 230 | 230 | 230 | 232 | 239 | 244 | 250 | 256 |
| New Hampshire | 50 | 47 | 46 | 47 | 48 | 49 | 51 | 53 | 55 | 57 |
| New Jersey | 326 | 310 | 306 | 309 | 313 | 308 | 315 | 320 | 327 | 332 |
| New York | 813 | 776 | 770 | 782 | 796 | 813 | 818 | 830 | 844 | 855 |
| Pennsylvania | 527 | 507 | 496 | 498 | 502 | 511 | 528 | 540 | 553 | 561 |
| Rhode Island | 38 | 37 | 37 | 38 | 38 | 39 | 40 | 42 | 43 | 44 |
| Vermont | 27 | 26 | 25 | 24 | 25 | 28 | 29 | 30 | 30 | 31 |
| Midwest | 2,952 | 2,852 | 2,814 | 2,835 | 2,886 | 2,941 | 3,048 | 3,116 556 | 3,180 563 | 3,217 565 |
| Illinois | 536 | 517 | 512 | 520 | 529 283 | 537 287 | 550 295 | 299 | 304 | 306 |
| Indiana | 293 | 283 | 279 | 281 143 | 283 146 | 151 | 155 | 159 | 163 | 164 |
| lowa | 144 | 140 | 139 | | 123 | 128 | 136 | 141 | 146 | 150 |
| Kansas | 120 | 117 449 | 117 440 | 120 ·435 | 439 | 439 | 454 | 462 | 470 | 474 |
| Michigan | 469 | | | 217 | 224 | 233 | 245 | 255 | 265 | 271 |
| Minnesota | 216 | 211 232 | 211 228 | 231 | 238 | 244 | 253 | 257 | 262 | 266 |
| Missouri | 239 | 232 77 | 76 | 78 | 80 | 82 | 85 | 88 | 91 | 92 |
| Nebraska | 78 34 | 33 | 33 | 33 | 34 | 35 | 36 | 37 | 37 | 38 |
| North Dakota | 549 | 525 | 514 | 506 | 511 | 517 | 533 | 543 | 552 | 555 |
| Ohio | 349 | 34 | 34 | 35 | 37 | 41 | 43 | 45 | 47 | 47 |
| South Dakota Wisconsin | 240 | 234 | 232 | 235 | 241 | 248 | 264 | 274 | 283 | 289 |
| South | 4,078 | 3,988 | 3,948 | 4,013 | 4,070 | 4,150 | 4,295 | 4,400 | 4,518 | 4,596 |
| Alabama | 203 | 198 | 195 | 196 | 196 | 199 | 204 | 206 | 208 | 208 |
| Arkansas | 127 | 124 | 123 | 123 | 124 | 127 | 130 | 132 | 134 | 134 |
| Delaware | 28 | 27 | 27 | 28 | 28 | 29 | 30 | 32 | 33 | 33 |
| District of Columbia | 22 | 21 | 19 | 20 | 21 | 19 | 19 | 19 | 20 | 20 |
| Florida | 489 | 486 | 492 | 505 | 512 | 526 | 546 | 569 | 597 | 620 |
| Georgia | 300 | 298 | 303 | 309 | 316 | 325 | 340 | 351 | 361 | 368 |
| Kentucky | 186 | 179 | 177 | 180 | 185 | 188 | 193 | 194 | 194 | 194 |
| Louisiana | 206 | 201 | 199 | 203 | 207 | 213 | 217 | 219 | 221 | 222 |
| Maryland | 200 | 192 | 188 | 193 | 196 | 203 | 211 | 218 | 226 | 233 |
| Mississippi | 136 | 133 | 131 | 134 | 137 | 137 | 141 | 143 | 145 | 144 |
| North Carolina | 322 | 311 | 304 | 303 | 304 | 305 | 316 | 320 | 328 | 333 |
| Oklahoma | 167 | 158 | 154 | 156 | 158 | 163 | 169 | 173 | 178 | 182 |
| South Carolina | 178 | 172 | 170 | 171 | 173 | 177 | 181 | 185 | 188 | 189 |
| Tennessee | 236 | 230 | 226 | 229 | 233 | 237 | 246 | 250 | 255 | 257 |
| Texas | 892 | 885 | 872 | 889 | 907 | 927 | 964 | 996 | 1,027 | 1,049 |
| Virginia | 283 104 | 273 100 | 270 98 | 275 99 | 274 99 | 278 99 | 290 99 | 296 98 | 305 98 | 314 96 |
| West Virginia | | 2,427 | 2,484 | 2,579 | 2,640 | 2,701 | 2,809 | 2,922 | 3,047 | 3,146 |
| West | 2,437 28 | 2,427 | 2,464 | 30 | 2,040 | 32 | 34 | 36 | 37 | 38 |
| Alaska | 28 157 | 156 | 161 | 167 | 176 | 183 | 196 | 206 | 216 | 224 |
| Arizona California | 1,301 | 1,302 | 1,336 | 1,387 | 1,404 | 1,424 | 1,465 | 1,522 | 1,586 | 1,642 |
| Colorado | 1,301 | 1,302 | 1,330 | 1,567 | 161 | 165 | 173 | 180 | 189 | 197 |
| Hawaii | 47 | 46 | 49 | 48 | 49 | 49 | 54 | 57 | 60 | 61 |
| Idaho | 59 | 58 | 61 | 64 | 67 | 70 | 73 | 75 | 77 | 78 |
| Montana | 43 | 41 | 42 | 43 | 45 | 46 | 48 | 50 | 51 | 52 |
| Nevada | 49 | 49 | 51 | 54 | 58 | 61 | 65 | 70 | 75 | 79 |
| New Mexico | 92 | 93 | 94 | 96 | 98 | 96 | 103 | 108 | 113 | 115 |
| Oregon | 134 | 132 | 132 | 139 | 145 | 148 | 152 | 157 | 162 | 167 |
| Utah | 112 | 115 | 122 | 129 | 134 | 141 | 146 | 150 | 155 | 155 |
| Washington | 228 | 224 | 227 | 237 | 245 | 256 | 269 | 281 | 294 | 305 |
| Wyoming | 27 | 27 | 27 | 28 | 29 | 29 | 31 | 32 | 32 | 33 |



Table 49.—Enrollment in grades 9-12 in public schools, by region and state, with projections: Fall 1988 to fall 2006—Continued

(In thousands)

| Dorion and state | Projected | | | | | | | | | | |
|-----------------------------|------------|------------|------------|-----------|------------|-----------|-----------|-----------|-----------|--|--|
| Region and state | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | | |
| United States | 13,466 | 13,673 | 13,804 | 13,862 | 14,004 | 14,169 | 14,483 | 14,818 | 15,021 | | |
| Northeast | 2,368 | 2,405 | 2,431 | 2,445 | 2,474 | 2,502 | 2,560 | 2,615 | 2,644 | | |
| Connecticut | 142 | 144 | 146 | 148 | 150 | 152 | 155 | 159 | 161 | | |
| Maine | 65 | 66 | 66 | 66 | 65 | 65 | 66 | 66 | 66 | | |
| Massachusetts | 262 | 269 | 274 | 277 | 283 | 287 | 294 | 300 | 303 | | |
| New Hampshire | 58 | 60 | 60 | 60 | 61 | 62 | 63 | 63 | 64 | | |
| New Jersey | 336 | 343 | 349 | 355 | 364 | 373 | 386 | 399 | 408 | | |
| New York | 862 | 873 | 880 | 884 | 894 | 904 | 927 | 950 | 960 | | |
| Pennsylvania | 566 | 573 | 577 | 577 | 579 | 580 | 589 | 597 | 601 | | |
| Rhode Island Vermont | 45 31 | 46 32 | 46 32 | 46 31 | 47 31 | 47 31 | 48 32 | 49 32 | 50 32 | | |
| Midwest | 3,229 | 3,258 | 3,269 | 3,258 | 3,263 | 3,273 | 3,316 | 3,364 | 3,394 | | |
| Illinois | 567 | 575 | 581 | 583 | 5,203 | 593 | 606. | 623 | 634 | | |
| Indiana | 305 | 306 | 306 | 306 | 308 | 313 | 318 | 324 | 329 | | |
| lowa | 163 | 163 | 162 | 160 | 159 | 158 | 159 | 160 | 160 | | |
| Kansas | 151 | 152 | 152 | 150 | 149 | 148 | 149 | 151 | 151 | | |
| Michigan | 477 | 482 | 485 | 486 | 489 | 492 | 503 | 511 | 516 | | |
| Minnesota | 274 | 278 | 278 | 277 | 275 | 273 | 274 | 275 | 274 | | |
| Missouri | 268 | 271 | 273 | 272 | 272 | 272 | 275 | 278 | 280 | | |
| Nebraska | 93 | 93 | 93 | 92 | 91 | 92 | 92 | 93 | 93 | | |
| North Dakota | 38 | 38 | 38 | 37 | 37 | 37 | . 37 | 37 | 37 | | |
| Ohio | 553 | 556 | 558 | 557 | 561 | 565 | 572 | 580 | 585 | | |
| South Dakota | 47 | 47 | 47 | 46 | 45 | 44 | 44 | 45 | 45 | | |
| Wisconsin | 291 | 295 | 295 | 293 | 290 | 286 | 287 | 288 | 289 | | |
| South | 4,650 | 4,718 | 4,761 | 4,777 | 4,828 | 4,889 | 4.009 | 5 114 | 5 102 | | |
| Alabama | 208 | 208 | 210 | 212 | - | | 4,998 | 5,114 | 5,183 | | |
| Arkansas | 135 | 135 | 135 | 135 | 215 135 | 220 | 225 | 231 | 235 | | |
| Delaware | 34 | 34 | 35 | 35 | | 136 | 139 | 142 | 143 | | |
| District of Columbia | 20 | 21 | 21 | 21 | 36 22 | 36 | 37 | 38 | 39 | | |
| Florida | 639 | 655 | 663 | 664 | | 22 672 | 23 | 23 | 24 | | |
| Georgia | 371 | 375 | | | 669 | 673 | 690 | 706 | 713 | | |
| Kentucky | 192 | 196 | 379 194 | 382 | 388 | 395 | 407 | 418 | 424 | | |
| Louisiana | 222 | | | 192 | 192 | 192 | 195 | 198 | 199 | | |
| | 239 | 223 | 223 | 221 | 221 | 221 | 223 | 226 | 229 | | |
| Maryland | 143 | 244 | 248 | 251 | 256 | 261 | 269 | 277 | 282 | | |
| Mississippi North Carolina | 338 | 141 347 | 140 | 138 | 137 | 137 | 140 | 143 | 146 | | |
| | | | 354 | 361 | 371 | 381 | 393 | 404 | 409 | | |
| Oklahoma | 184 189 | 185 | 184 | 182 | 181 | 181 | 184 | 187 | 189 | | |
| South Carolina | | 191 | 193 | 193 | 197 | 201 | 207 | 212 | 216 | | |
| Texas | 259 | 263 | 266 | 268 | 272 | 276 | 283 | 289 | 293 | | |
| | 1,063 | 1,079 | 1,089 | 1,091 | 1,099 | 1,108 | 1,127 | 1,150 | 1,165 | | |
| Virginia West Virginia | 321 94 | 329 92 | 336 91 | 341 90 | 349 90 | 358 90 | 367 91 | 377 92 | 383 94 | | |
| West | 3,218 | 3,292 | 3,343 | 3,382 | 3,439 | 3,505 | 3,609 | 3,725 | 3,800 | | |
| Alaska | 39 | 40 | 41 | 42 | 42 | 43 | 44 | 45 | . 45 | | |
| Arizona | 228 | 233 | 235 | 234 | 235 | 234 | 241 | 248 | 253 | | |
| California | 1,687 | 1,736 | 1,775 | 1,810 | 1,857 | 1,911 | 1,981 | 2,059 | 2,111 | | |
| Colorado | 203 | 208 | 211 | 213 | 215 | 217 | 219 | 222 | 224 | | |
| Hawaii | 62 | 63 | 63 | 62 | 61 | 60 | 62 | 64 | 65 | | |
| Idaho | 79 | 79 | 79 | 79 | 79 | 80 | 81 | . 83 | 84 | | |
| Montana | 53 | 53 | 53 | 52 | 51 | 51 | 51 | 52 | 52 | | |
| Nevada | 82 | 85 | 87 | 88 | 89 | 88 | 90 | 92 | 92 | | |
| New Mexico | 115 | 115 | 114 | 114 | 113 | 113 | 116 | 119 | 122 | | |
| Oregon | 171 | 174 | 176 | 177 | 179 | 182 | 186 | 190 | 193 | | |
| Utah | 154 | 153 | 152 | 151 | 151 | 154 | 157 | 160 | 162 | | |
| Washington | 313 | 320 | 326 | 330 | 335 | 341 | 349 | 357 | 363 | | |
| Wyoming | 33 | 33 | 32 | 32 | 32 | 32 | 32 | 551 | 202 | | |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys. (This table was prepared September 1995.)



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Table 50.—Percent change in grades 9–12 enrollment in public schools, by region and state, with projections: Fall 1988 to fall 2006

| | Actual | _ | Projected | | | | | |
|-----------------------|--------------|--------------|--------------|--------------|--|--|--|--|
| Region and state - | 1988 to 1994 | 1994 to 2000 | 2000 to 2006 | 1994 to 2006 | | | | |
| United States | 5.8 | 11.6 | 8.8 | 21. | | | | |
| Northeast | -0.3 | 9.8 | 8.8 | 19.: | | | | |
| Connecticut | 2.9 | 10.2 | 9.7 | 21, | | | | |
| Maine | -4.2 | 7.6 | 0.5 | 8. | | | | |
| Massachusetts | -2.9 | 14.7 | 10.7 | 26. | | | | |
| New Hampshire | 2.9 | 17.9 | 5.9 | 24. | | | | |
| | -3.4 | 10.9 | 17.0 | 29. | | | | |
| New Jersey | | 7.6 | 9.1 | 17. | | | | |
| New York | 0.6 | | 4.1 | 17. | | | | |
| Pennsylvania | 0.1 | 9.5 | | 23. | | | | |
| Rhode Island Vermont | 5.7 9.4 | 13.6 9.1 | 8.3 -0.4 | 8. | | | | |
| | | 7.3 | 3.8 | 11. | | | | |
| Midwest | 3.3 | 7.3 5.7 | 9.2 | | | | | |
| Illinois | 2.6 | | | 15. | | | | |
| Indiana | 0.5 | 3.9 | 7.5 | 11. | | | | |
| Iowa | 7.5 | 4.6 | -1.4 | 3. | | | | |
| Kansas | 13.3 | 11.6 | -0.2 | 11. | | | | |
| Michigan | -3.3 | 7.0 | 6.4 | 13. | | | | |
| Minnesota | 13.4 | 13.9 | -1.4 | 12. | | | | |
| Missouri | 5.9 | 8.1 | 2.3 | 10. | | | | |
| Nebraska | 8.8 | 9.1 | 0.5 | 9. | | | | |
| North Dakota | 6.6 | 5.5 | -2.8 | 2. | | | | |
| Ohio | -2.9 | 4.7 | 4.8 | 9. | | | | |
| South Dakota | 25.6 | 8.2 | -3.0 | 4 | | | | |
| Wisconsin | 10.3 | 11.7 | -2.3 | 9 | | | | |
| South | 5.3 | 10.9 | 8.9 | 20 | | | | |
| | 0.4 | 2.9 | 12.0 | 15 | | | | |
| Alabama | 2.2 | 4.2 | 5.8 | 10 | | | | |
| Arkansas | 9.0 | 14.9 | 12.1 | 28 | | | | |
| Delaware | | | 12.1 | 22 | | | | |
| District of Columbia | -14.9 | 9.6 | | | | | | |
| Florida | 11.6 | 21.4 | 7.7 | 30 | | | | |
| Georgia | | 11.5 | 11.8 | 24 | | | | |
| Kentucky | 3.8 | 0.6 | 2.7 | 3 | | | | |
| Louisiana | 5.4 | 3.1 | 2.5 | 5 | | | | |
| Maryland | 5.6 | 17.6 | 13.7 | 33 | | | | |
| Mississippi | 3.6 | -0.4 | 3.9 | 3 | | | | |
| North Carolina | -2.0 | 12.1 | 15.6 | 29 | | | | |
| Oklahoma | 1.1 | 9.3 | 2.7 | 12 | | | | |
| South Carolina | 2.0 | 6.1 | 12.0 | 18 | | | | |
| Tennessee | 4.4 | 8.3 | 9.9 | 19 | | | | |
| Texas | 8.1 | 13.0 | 7.0 | 20 | | | | |
| Virginia | 2.4 | 15.9 | 13.9 | 32 | | | | |
| West Virginia | -4.5 | -8.4 | 2.9 | -5 | | | | |
| West | 15.3 | 19.0 | 13.7 | 35 | | | | |
| Alaska | 21.2 | 21.8 | 10.2 | 34 | | | | |
| Arizona | 24.6 | 19.7 | 8.0 | 29 | | | | |
| | | 21.1 | 18.9 | 44 | | | | |
| California | 12.6 | 22.3 | 6.2 | 29 | | | | |
| Colorado | 7.7 | | | | | | | |
| Hawaii | 15.5 | 14.9 | 4.4 | 19 | | | | |
| Idaho | 22.9 | 8.6 | 6.2 | 15 | | | | |
| Montana | 13.3 | 8.7 | -1.1 | 7 | | | | |
| Nevada | 33.3 | 33.0 | 6.0 | 41 | | | | |
| New Mexico | 11.5 | 11.2 | 6.7 | 18 | | | | |
| Oregon | 14.2 | 15.5 | 9.5 | 26 | | | | |
| Utah | 31.0 | 3.7 | 6.8 | 10 | | | | |
| Washington | 17.9 | 21.4 | 11.2 | 35 | | | | |
| Wyoming | 12.0 | 5.6 | 3.3 | 9 | | | | |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1995.)



Chapter 9

Public High School Graduates

The projected increases in public high school enrollment between 1994 and 2006 will cause corresponding increases in the number of public high school graduates. The number of public high school graduates is expected to increase by 21 percent between 1993–94 and 2005–2006. This increase will be reflected in many states, with 46 states showing increases (table 51 and figure 68). Each region of the country is expected to reflect this increase in the number of public high school graduates. A significant increase is expected in the West and smaller increases are projected for the South, Midwest, and Northeast.

The number of public high school graduates in the Northeast is expected to increase 21 percent between 1993–94 and 2005–2006 (table 52 and figure 69). Increases are expected in all states in the region. These increases reverse the enrollment declines in most of the states in the late 1980s. Increases are expected in Connecticut (24 percent), Massachusetts (23 percent), New Hampshire (30 percent), New Jersey (16 percent), New York (20 percent), Pennsylvania (24 percent), Rhode Island (21 percent), and Vermont (42 percent). A smaller increase is projected for Maine (3 percent).

The number of public high school graduates in the Midwest is expected to increase by 13 percent between 1993–94 and 2005–2006. Increases are expected in Kansas (29 percent), Minnesota (30 percent), Missouri (18 percent), South Dakota (50 percent), and Wisconsin (32 percent). Other increases are projected in Illinois (12 percent) and Nebraska (10 percent). Smaller increases are projected for Indiana (2 percent), Iowa (5 percent), Michigan (8 percent), North Dakota (1 percent), and Ohio (4 percent). Most

of the growth in the number of public high school graduates in the states will occur between 1993–94 and 1999–2000.

Between 1993-94 and 2005-2006, the number of public high school graduates in the South will increase by 18 percent. Significant increases are expected in Delaware (20 percent), Florida (41 percent), Georgia (29 percent), and Maryland (38 percent). Other increases are projected for North Carolina (14 percent), Oklahoma (19 percent), Texas (23 percent), and Virginia (19 percent). Smaller increases are projected for Alabama (2 percent), Arkansas (5 percent), South Carolina (6 percent), and Tennessee (11 percent). Despite an overall increase in the region. five Southern states are expected to have declines in the number of graduates. Decreases are expected in District of Columbia (10 percent), Kentucky (1 percent), Louisiana (2 percent), Mississippi (2 percent), and West Virginia (13 percent). Most of the growth in the number of public high school graduates in a majority of the states will occur between 1993-94 and 1999-2000.

The number of high school graduates in the West is expected to increase greatly, rising by 33 percent. Sizable increases are expected in Alaska (40 percent), Arizona (61 percent), Colorado (34 percent), Hawaii (77 percent), Nevada (93 percent), New Mexico (54 percent), and Washington (40 percent). Other increases are projected in California (27 percent), Idaho (24 percent), Montana (24 percent), Oregon (25 percent), and Utah (16 percent). Wyoming is expected to increase by only 2 percent. Most of the growth in the number of public high school graduates in a majority of the states will occur between 1993–94 and 1999–2000.



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Figure 68

Percent change in number of public high school graduates, by state:

1993-94 to 2005-2006

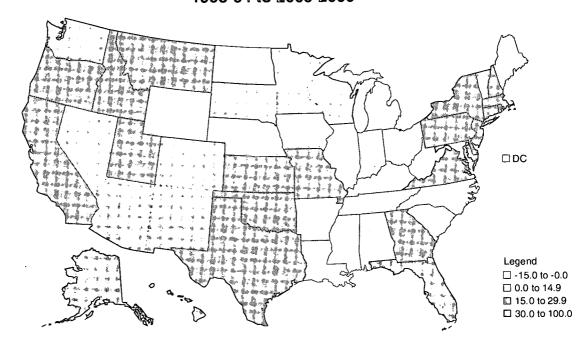


Figure 69
Percent change in number of public high school graduates, by region: 1993-94 to 2005-2006

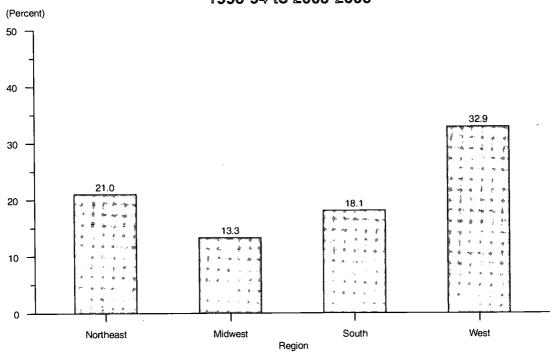




Table 51.—Number of high school graduates in public schools, by region and state, with projections: 1987-88 to 2005-2006

| Region and state | | | Ac | Projected | | | | | | |
|----------------------|------------------|------------------|----------------|-----------|-----------|-------------------------|-----------------|------------------|------------------|------------------|
| | 1987-88 | 1988–89 | 1989-90 | 1990–91 | 1991-92 | 1992 –93 | 1993–94 | 1994-95 | 1995–96 | 1996-97 |
| United States | | 2,458,800 | 2,320,337 | 2,234,893 | 2,226,016 | 2,233,241 | 2.247.208 | 2,299,700 | 2,320,940 | 2,342,670 |
| Connecticut | 503,041 | 477,668 | 446,045 | 419,007 | 419,115 | 413,955 | 410.486 | 419,350 | 417,350 | 421,890 |
| Maine | 32,383 13,808 | 30,862 | 27,878 | 27,290 | 27,079 | 26,799 | 26,688 | 26,800 | 26,900 | 27,210 |
| Massachusetts | 59,515 | 13,857 | 13,839 | 13,151 | 13,177 | 12,103 | 12,543 | 13,000 | 12,350 | 12,510 |
| New Hampshire | 11.685 | 57.328 | 55,941 | 50,216 | 50,317 | 48,321 | 47,939 | 48,260 | 47,920 | 48,390 |
| New Jersey | 80,863 | 11.340 76.263 | 10,766 | 10,059 | 10,329 | 10,065 | 10.251 | 9,270 | 10,580 | 10,640 |
| New York | 165,379 | 154.580 | 69,824 | 67,003 | 66,669 | 67,134 | 65.456 | 65,840 | 63.060 | 62,200 |
| Pennsylvania | 124,376 | 118,921 | 143,318 | 133,562 | 134,573 | 132,963 | 132.538 | 135,500 | 137,420 | 139,190 |
| Rhode Island | 8,855 | 8.554 | 110,527 | 104,770 | 103,881 | 103,715 | 102,138 | 107,230 | 104,770 | 107.180 |
| Vermont | 6,177 | 5.963 | 7,825 6,127 | 7,744 | 7,859 | 7,640 | 7.642 | 7,770 | 7.920 | 7,870 |
| | | | 0.127 | 5,212 | 5,231 | 5,215 | 5.291 | 5,680 | 6.430 | 6.710 |
| Midwest | | 663.225 | . 616,700 | 583,888 | 578,106 | 58 8,810 | 585,249 | 608,430 | 603,340 | |
| Indiana | 119,090 | 116.660 | 108,119 | 103,329 | 102,742 | 103,628 | 102.894 | 105,830 | 106.850 | 610.390 |
| lowa | | 63.571 | 60,012 | 57,892 | 56,630 | 57,559 | 57.115 | 58,970 | 58.580 | 105,680 |
| Kansas | 35,218 | 34.294 | 31,796 | 28,593 | 29,224 | 30,677 | 30,890 | 31,670 | 32.240 | 59,080 32.830 |
| Michigan | 27,036 | 26.848 | 25,367 | 24,414 | 24,129 | 24,720 | 24,914 | 26,090 | 27,490 | 27.800 |
| Minnesota | 106,151 | 101.784 | 93,807 | 88,234 | 87,756 | 85,302 | 84.800 | 88,500 | 83,540 | 85,090 |
| Missouri | 54,645 | 53,122 | 49,087 | 46,474 | 46,228 | 48,002 | 48.420 | 50,900 | 51,270 | |
| Nebraska | 51,316 | 51,968 | 48,957 | 46,928 | 46,556 | 4 6, 86 4 | 46,889 | 46,930 | 49.110 | 53,430 49,860 |
| North Dakota | 18,300 | 18,690 | 17,664 | 16,500 | 17,057 | 17,569 | 17.906 | 19,870 | 18.270 | 18.520 |
| Ohio | 8,432 | 8.077 | 7,690 | 7,573 | 7,438 | 7,310 | 7,505 | 7,520 | 8.000 | 8.030 |
| South Dakota | 124,503 | 125.036 | 114.513 | 107,484 | 104,522 | 109,200 | 105.763 | 110,070 | 106.060 | 106.270 |
| Wisconsin | 8,415 | 8.181 | 7.650 | 7,127 | 7,261 | 7,952 | 7.943 | 8,580 | 9.030 | 9.640 |
| South | 58,428 | 54.994 | 52.038 | 49,340 | 48,563 | 50,027 | 50.210 | 53.500 | 52,900 | 54.170 |
| Alabama | 833,532 | 836,992 | 796,385 | 780,268 | 762,751 | 754,670 | 759,438 | 768,270 | 782,280 | 784,640 |
| Arkansas | 43,799 | 43,437 | 40.485 | 39,042 | 38,680 | 36,007 | 36.839 | 37,090 | 37,500 | 37.350 |
| Delaware | 27,776 | 27.920 | 26,475 | 25,668 | 25,845 | 25,655 | 25,571 | 25,780 | 25,800 | 25,980 |
| District of Columbia | 5,963 | 6,104 | 5,550 | 5,223 | 5,325 | 5,492 | 5.456 | 5,210 | 5,460 | 5,720 |
| Florida | 3,882 | 3.565 | 3.626 | 3,369 | 3,385 | 3,136 | 3.125 | 3,120 | 2,990 | 3.040 |
| Georgia | 89,206 | 90,759 | 88,934 | 87,419 | 93,674 | 8 9,428 | 93,108 | 90,310 | 94,790 | 96.080 |
| Kentucky | 61,765 | 61,937 | 56.605 | 60,088 | 57,742 | 57,602 | 59,239 | 57,780 | 61.090 | 62.500 |
| Louisiana | 39,484 | 38,883 | 38,005 | 35,835 | 33,896 | 36,361 | 36.077 | 36,430 | 37.770 | 37.880 |
| Maryland | 39,058 | 37.198 | 36.053 | 33,489 | 32,247 | 33.682 | 33.378 | 36.020 | 34,770 | 34.410 |
| Mississippi | 47.175 27.896 | 45.791 | 41.566 | 39,014 | 39,720 | 39,523 | 38.610 | 41,410 | 41.600 | 41.470 |
| North Carolina | 67.836 | . 24.241 | 25.182 | 23,665 | 22,912 | 23.597 | 23.364 | 23,120 | 23.830 | 23.630 |
| Oklahoma | 36,145 | 69.970 | 64.782 | 62,792 | 61,157 | 60,460 | 59.259 | 59,700 | 59.190 | 58.420 |
| South Carolina | 36,143 | 36.773 | 35,606 | 33,007 | 32,670 | 30.542 | 29.504 | 31,300 | 32,220 | 32,440 |
| Tennessee | 47,904 | 37,020 | 32,483 | 32,999 | 30,698 | 31,297 | 30.986 | 33,900 | 31.650 | 31.650 |
| Texas | 171,436 | 48,553 | 46,094 | 44,847 | 45,138 | 4 4,166 | 44.693 | 45,390 | 45.390 | 45.890 |
| Virginia | 65,688 | 176,951 | 172.480 | 174,306 | 162,270 | 160,546 | 163,406 | 162,380 | 168,710 | 169.610 |
| West Virginia | 22,406 | 65,004 | 60,605 | 58,441 | 57,338 | 56,948 | 56.451 | 58.530 | 58.820 | 57.840 |
| | | 22,886 | 21.854 | 21,064 | 20,054 | 20,228 | 20.372 | 20,800 | 20.700 | 20.750 |
| /est | 488,047 | 480,915 | 461.207 | 451,730 | 466,044 | 475:806 | 492.035 | 503,650 | | |
| Alaska | 5,907 | 5,631 | 5,386 | 5,458 | 5,535 | 5,535 | | | 517.970 | 525.750 |
| Arizona | 29,777 | 31,919 | 32,103 | 31,282 | 31,264 | 31,747 | 5.624 32.921 | 5,940 | 5.990 | 6.490 |
| California | 249,617 | 244,629 | 236,291 | 234,164 | 244,594 | 249,320 | 260,457 | 31,190 | 35,610 | 37.000 |
| Colorado | 35,977 | 35,520 | 32,967 | 31,293 | 31,059 | 31,839 | 32,181 | 262,000 | 264.940 | 266.960 |
| Hawaii | 10,575 | 10,404 | 10,325 | 8,974 | 9,160 | 8,854 | 8.828 | 33,090 | 33,310 | 33.880 |
| Idaho | 12,425 | 12,520 | 11,971 | 11,961 | 12,734 | 12,974 | 13,509 | 9,950 | 10,440 | 10.820 |
| Montana | 10,311 | 10,490 | 9,370 | 9,013 | 9,046 | 9,389 | 9,467 | 13,900 | 14,660 | 15.200 |
| Nevada | 9,404 | 9,464 | 9,477 | 9,370 | 8,811 | 9,042 | 9,407 | 9,970 | 10,220 | 10.550 |
| New Mexico | 15,868 | 15,481 | 14,884 | 15,157 | 14,824 | 15,172 | 15,148 | 9,970 | 11,040 | 11.530 |
| Oregon | 28,058 | 26,903 | 25,473 | 24,597 | 25,305 | 26,301 | 26.995 | 15,150 | 17,210 | 18.130 |
| Utah | 22,226 | 22,934 | 21,196 | 22,219 | 23,513 | 24,197 | 25.423 | 27,500 | 28,710 | 29 .29 0 |
| | | | , | | | | | | | |
| Washington | 51,754 6,148 | 48,941 6,079 | 45,941 | 42,514 | 44,381 | 45,262 | 45.410 | 29,180 49,560 | 29,450 50,070 | 28,250 51,190 |



Table 51.—Number of high school graduates in public schools, by region and state, with projections: 1987–88 to 2005–2006—Continued

| | Projected | | | | | | | | | | | |
|---------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|--|
| Region and state | 1997-98 | 1998–99 | 1999–2000 | 2000–2001 | 2001–2002 | 2002–2003 | 2003–2004 | 2004–2005 | 2005–2006 | | | |
| United States | 2,452,070 | 2,536,250 | 2,577,090 | 2,630,840 | 2,655,440 | 2,673,280 | 2,739,060 | 2,736,240 | 2,710,060 | | | |
| Northeast | 436,900 | 445,660 | 454,150 | 466,190 | 473,070 | 478,910 | 491,110 | 497,870 | 496,560 | | | |
| Connecticut | 28,120 | 28,810 | 29,400 | 30,260 | 30,700 | 31,730 | 32,360 | 32,880 | 33,030 | | | |
| Maine | 12,810 | 12,740 | 13,190 | 13,360 | 13,640 | 13,760 | 13,930 | 13,880 | 12,950 | | | |
| Massachusetts | 49,380 | 50,770 | 51,980 | 53,860 | 54,540 | 56,360 | 58,100 | 58,160 | 58,810 | | | |
| New Hampshire | 11,010 | 11,610 | 12,270 | 12,810 | 13,130 | 13,220 | 13,840 | 13,640 | 13,270 | | | |
| New Jersey | 64,160 ⁻ | 66,410 | 67,490 | 68,810 | 69,330 | 70,870 | 72,970 | 74,270 | 75,620 | | | |
| New York Pennsylvania | 144,300 | 145,650 | 147,100 | 151,330 | 153,600 | 153,760 | 157,480 | 159,040 | 159,680 | | | |
| Rhode Island | 111,830 8,110 | 114,240 8,420 | 116,810 | 119,450 8,870 | 121,380 | 121,960 | 125,310 | 128,850 | 126,490 | | | |
| Vermont | 7,180 | . 7,020 | 8,660 7,260 | 7,440 | 9,020 7,740 | 9,380 7,890 | 9,390 7,720 | 9,510 7,640 | 9,230 7,490 | | | |
| Midwest | 634,730 | 659,380 | 661,060 | 664,680 | 664,860 | 667,340 | 683,490 | 677,270 | 663,050 | | | |
| Illinois | 110,640 | 114,750 | 111,340 | 110,330 | 109,300 | 114,060 | 117,300 | 116,450 | 115,390 | | | |
| Indiana | 60,120 | 62,270 | 61,920 | 62,640 | 61,700 | 60,740 | 60,450 | 59,840 | 57,950 | | | |
| lowa | 33,960 | 35,490 | 35,760 | 35,440 | 35,500 | 34,420 | 34,970 | 34,180 | 32,560 | | | |
| Kansas | 29,230 | 31,110 | 32,140 | 32,600 | 33,020 | 32,750 | 33,370 | 32,990 | 32,080 | | | |
| Michigan | 87,360 | 89,140 | 89,670 | 90,450 | 90,400 | 91,400 | 94,050 | 92,620 | 92,020 | | | |
| Minnesota | 56,190 | 59,270 | 60,910 | 62,490 | 62,720 | 63,400 | 65,010 | 65,030 | 63,140 | | | |
| Missouri | 52,060 | 53,240 | 52,790 | 53,060 | 55,380 | 54,740 | 56,350 | 56,270 | 55,120 | | | |
| Nebraska | 19,500 | 20,460 | 20,920 | 20,880 | 20,740 | 20,860 | 20,650 | 20,330 | 19,660 | | | |
| North Dakota | 8,150 | 8,320 | 8,580 | 8,710 | 8,600 | 8,300 | 8,220 | 7,900 | 7,610 | | | |
| Ohio | 109,440 | 113,400 | 114,000 | 113,550 | 111,540 | 110,210 | 113,890 | 112,620 | 109,470 | | | |
| South Dakota | 10,600 | 11,080 | 11,340 | 11,700 | 11,590 | 11,820 | 12,070 | 12,100 | 11,910 | | | |
| Wisconsin | 57,480 | 60,850 | 61,690 | 62,840 | 64,380 | 64,650 | 67,170 | 66,970 | 66,130 | | | |
| South | 827,820 | 849,380 | 861,340 | 878,880 | 886,310 | 889,570 | 913,930 | 905,800 | 896,780 | | | |
| Alabama | 38,700 | 39,690 | 39,030 | 38,690 | 38,230 | 38,020 | 37,360 | 37,120 | 37,540 | | | |
| Arkansas | 27,800 | 27,720 | 27,710 | 27,870 | 27,870 | 27,550 | 27,780 | 27,140 | 26,750 | | | |
| Delaware | 6,040 | 6,280 | 6,470 | 6,490 | 6,570 | 6,590 | 6,670 | 6,820 | 6,530 | | | |
| District of Columbia | 3,020 | 2,940 | 2,950 | 3,010 | 2,900 | 2,910 | 2,860 | 2,920 | 2,820 | | | |
| Florida | 103,170 | 106,880 | 112,000 | 118,910 | 123,600 | 126,990 | 131,180 | 131,200 | 131,310 | | | |
| Georgia | 66,260 | 69,410 | 70,390 | 71,760 | 73,040 | 73,160 | 73,820 | 75,120 | 76,160 | | | |
| Kentucky | 38,390 | 39,520 | 38,870 | 38,000 | 37,980 | 37,050 | 44,070 | 37,500 | 35,720 | | | |
| Louisiana | 36,890 | 36,370 | 35,710 | 35,500 | 35,360 | 34,670 | 35,200 | 34,580 | 32,850 | | | |
| Maryland | 44,410 | 45,950 | 47,360 | 49,140 | 50,360 | 51,010 | 51,870 | 52,180 | 53,300 | | | |
| Mississippi | 25,040 | 25,590 | 25,590 | 25,450 | 24,770 | 24,300 | 23,940 | 23,590 | 22,880 | | | |
| North Carolina | 61,320 | 62,000 | 61,900 | 63,780 | 63,690 | 64,110 | 67,010 | 66,960 | 67,800 | | | |
| Oklahoma | 33,770 | 34,970 | 35,680 | 37,010 | 37,290 | 36,800 | 36,380 | 35,980 | 35,020 | | | |
| South Carolina | 33,700 | 33,890 | 34,120 | 34,420 | 33,700 | 33,400 | 34,110 | 34,050 | 32,970 | | | |
| Tennessee | 47,600 | 47,600 | 48,150 | 49,250 | 48,830 | 49,050 | 50,440 | 50,770 | 49,410 | | | |
| Texas | 182,280 59,100 | 188,730 | 192,860 | 195,370 | 198,140 | 199,290 | 204,590 | 203,560 | 200,910 | | | |
| Virginia West Virginia | 20,330 | 61,220 20,620 | 62,630 19,930 | 64,060 20,180 | 64,460 19,520 | 66,180 18,480 | 68,350 18,330 | 68,010 18,310 | 67,030 17,790 | | | |
| West | 552,620 | 581,830 | 600,540 | 621,090 | 631,200 | 637,460 | 650,530 | 655,300 | 653,670 | | | |
| Alaska | 6,860 | 7,050 | 7,450 | 7,620 | 7,630 | 7,900 | 8,180 | 8,200 | 7,900 | | | |
| Arizona | 39,670 | 42,520 | 44,220 | 46,800 | 48,830 | 49,720 | 51,880 | 53,200 | 53,060 | | | |
| California | 276,580 | 291,580 | 300,660 | 309,050 | 314,500 | 318,980 | 326,910 | 328,820 | 330,000 | | | |
| Colorado | 35,560 | 38,050 | 39,240 | 41,030 | 42,030 | 42,080 | 42,940 | 43,710 | 43,190 | | | |
| Hawaii | 11,740 | 12,540 | 13,290 | 14,010 | 14,590 | 14,980 | 15,060 | 15,530 | 15,630 | | | |
| Idaho | 16,150 | 16,330 | 16,610 | 17,190 | 17,140 | 17,180 | 16,730 | 16,170 | 16,730 | | | |
| Montana | 10,960 | 11,440 | 11,900 | 12,070 | 12,000 | 12,180 | 12,280 | 12,210 | 11,740 | | | |
| Nevada | 12,410 | 13,620 | 14,400 | 15,400 | 16,080 | 16,750 | 17,670 | 18,620 | 19,100 | | | |
| New Mexico | 19,700 | 21,340 | 22,650 | 23,390 | 23,240 | 22,900 | 23,180 | 23,210 | 23,310 | | | |
| Oregon | 30,470 | 30,710 | 31,670 | 33,320 | 33,770 | 33,960 | 34,680 | 34,510 | 33,710 | | | |
| Utah | 31,380 | 32,340 | 31,960 | 32,550 | 31,370 | 30,840 | 30,330 | 30,140 | 29,610 | | | |
| Washington | 54,160 | 57,210 | 59,430 | 61,510 | 62,930 | 62,960 | 63,710 | 64,350 | 63,370 | | | |
| Wyoming | 6,980 | 7,110 | 7,060 | 7,150 | 7,090 | 7,010 | 6,970 | 6,640 | 6,330 | | | |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys. (This table was prepared September 1995.)

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Table 52.—Percent change in number of public high school graduates, by region and state, with projections: 1987-88 to 2005-2006

| Region and state | Actual | Projected | | | | | | |
|--------------------------|--------------------|----------------------|------------------------|----------------------|--|--|--|--|
| Region and state | 1987–88 to 1993–94 | 1993–94 to 1999–2000 | 1999–2000 to 2005–2006 | 1993–94 to 2005–2006 | | | | |
| United States | -10.2 | 14.7 | 5.2 | 20.6 | | | | |
| Northeast | -18.4 | 10.6 | 9.3 | 21.0 | | | | |
| Connecticut | -17.6 | 10.2 | 12.3 | 23.7 | | | | |
| Maine | -9.2 | 5.2 | -1.8 | 3.3 | | | | |
| Massachusetts | -19.5 | 8.4 | 13.1 | 22.3 | | | | |
| New Hampshire | -12.3 | 19.7 | 8.1 | 29.5 | | | | |
| New Jersey | -19.1 | 3.1 | 12.0 | 15.: | | | | |
| New York | -19.9 | 11.0 | 8.6 | 20.5 | | | | |
| Pennsylvania | -17.9 | 14.4 | 8.3 | 23.8 | | | | |
| Rhode Island | -13.7 | 13.3 | 6.7 | 20.8 | | | | |
| Vermont | -14.3 | 37.3 | 3.1 | 41.5 | | | | |
| Midwest | -13.4 | 13.0 | 0.3 | 13.3 | | | | |
| | -13.4 | | | | | | | |
| Illinois | | 8.2 | 3.6 | 12.1 | | | | |
| Indiana | -10.8 | 8.4 | -6.4 | 1.5 | | | | |
| Iowa | -12.3 | 15.8 | -8.9 | 5.4 | | | | |
| Kansas | -7.8 | 29.0 | -0.2 | 28.7 | | | | |
| Michigan | -20.1 | 5.7 | 2.6 | 8.5 | | | | |
| Minnesota | -11.4 | 25.8 | 3.7 | 30.4 | | | | |
| Missouri | -8.6 | 12.6 | 4.4 | 17. č | | | | |
| Nebraska | -2.2 | 16.8 | -6.0 | 9.8 | | | | |
| North Dakota | -11.0 | 14.3 | -11.3 | 1.4 | | | | |
| Ohio | -15.1 | 7.8 | -4.0 | 3.5 | | | | |
| South Dakota | -5.6 | 42.8 | 5.0 | 50.0 | | | | |
| Wisconsin | -14.1 | 22.9 | 7.2 | 31.7 | | | | |
| | | | | | | | | |
| South | -8.9 | 13.4 | 4.1 | 18.1 | | | | |
| Alabama | -15.9 | 5.9 | -3.8 | 1.9 | | | | |
| Arkansas | -7.9 | 8.3 | -3.4 | 4.6 | | | | |
| Delaware | -8.5 | 18.6 | 0.9 | 19.7 | | | | |
| District of Columbia | -19.5 | -5.7 | -4.1 | -9.6 | | | | |
| Florida | 4.4 | 20.3 | 17.2 | 41.0 | | | | |
| Georgia | -4.1 | 18.8 | 8.2 | 28.6 | | | | |
| Kentucky | 8.6 | 7.7 | -8.1 | -1.0 | | | | |
| Louisiana | -14.5 | 7.0 | -8.0 | -1.6 | | | | |
| Maryland | -18.2 | 22.7 | 12.5 | 38.1 | | | | |
| Mississippi | -16.2 | 9.5 | -10.6 | -2.1 | | | | |
| North Carolina | -12.6 | 4.5 | 9.5 | 14.4 | | | | |
| Oklahoma | -18.4 | 20.9 | -1.9 | | | | | |
| _ | | | | 18.7 | | | | |
| South Carolina Tennessee | -14.2 | 10.1 | -3.4 | 6.4 | | | | |
| | -6.7 | 7.7 | 2.6 | 10.6 | | | | |
| Texas | -4.7 | 18.0 | 4.2 | 23.0 | | | | |
| Virginia | -14.1 | 10.9 | 7.0 | 18.7 | | | | |
| West Virginia | -9.1 | -2.2 | -10.7 | -12.7 | | | | |
| West | 0.8 | 22.1 | 8.8 | 32.9 | | | | |
| Alaska | -4.8 | 32.4 | 6.1 | 40.4 | | | | |
| Arizona | 10.6 | 34.3 | 20.0 | 61.2 | | | | |
| California | 4.3 | 15.4 | 9.8 | 26.7 | | | | |
| Colorado | -10.6 | 21.9 | | | | | | |
| Hawaii | -16.5 | | 10.1 | 34.2 | | | | |
| | | 50.5 | 17.6 | 77.1 | | | | |
| Idaho | 8.7 | 23.0 | 0.8 | 23.9 | | | | |
| Montana | -8.2 | 25.7 | -1.4 | 24.0 | | | | |
| Nevada | 5.2 | 45.6 | 32.6 | 93.1 | | | | |
| New Mexico | -4.5 | 49.5 | 2.9 | 53.9 | | | | |
| Oregon | -3.8 | 17.3 | 6.5 | 24.9 | | | | |
| Utah | 14.4 | 25.7 | -7.4 | 16.5 | | | | |
| Washington | -12.3 | 30.9 | 6.6 | 39.5 | | | | |
| Wyoming | 0.5 | 14.3 | -10.4 | 2.4 | | | | |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1995.)



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Technical Appendixes



Appendix A

Projection Methodology

The general procedure for *Projections* was to express the variable to be projected as a percent of a "base" variable. These percents were then projected and applied to projections of the "base" variable. For example, the number of 18-year-old college students was expressed as a percent of the 18-year-old population for each year from 1972 through 1993. This percent was then projected through the year 2006 and applied to projections of the 18-year-old population from the Bureau of the Census.

Enrollment projections are based primarily on population projections. Projections of classroom teachers, high school graduates, earned degrees conferred, and expenditures are based primarily on enrollment projections.

Single exponential smoothing, double exponential smoothing, and multiple linear regression are the three major projection techniques used in this publication. Single exponential smoothing is used when the historical data have a basically horizontal pattern. On the other hand, double exponential smoothing is used when the time series is expected to change linearly with time. In general, exponential smoothing places more weight on recent observations than on earlier ones. The weights for observations decrease exponentially as one moves further into the past. As a result, the older data have less influence on projections. The rate at which the weights of older observations decrease is determined by the smoothing constant selected.

$$\begin{split} P &= \alpha X_t \,+\, \alpha (1-\alpha) X_{t-1} \,+\, \alpha (1-\alpha)^2 X_{t-2} \\ &+\, \alpha (1-\alpha)^3 X_{t-3} \,+\, \ldots \end{split}$$

Where:

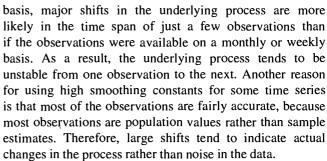
P = projected constant

 $\alpha = \text{smoothing constant} (0 < \alpha < 1)$

 X_t = observation for time t

This equation illustrates that the projection is a weighted average based on exponentially decreasing weights. For a high smoothing constant, weights for earlier observations decrease rapidly. For a low smoothing constant, decreases are more moderate. Projections of enrollments and public high school graduates are based on a smoothing constant of $\alpha = 0.4$.

In general, the projections in this publication are based on fairly high smoothing constants. The farther apart the observations are spaced in time, it is more likely that there are changes in the underlying social, political, and economic structure. Since the observations are on an annual



Multiple linear regression was also used in making projections, primarily in the areas of teachers, earned degrees, and expenditures. This technique was used when it was believed that a strong causal relationship existed between the variable being projected (the dependent variable) and independent causal variables. However, this technique was used only when accurate data and reliable projections of the independent variables were available.

The functional form primarily used was the multiplicative model. When used with two independent variables, this model takes the form:

$$Y = aX_1^{b_1}X_2^{b_2}$$

This equation can easily be transformed into the linear form by taking the natural log(ln) of both sides of the equation:

$$lnY = ln(a) + b_1 lnX_1 + b_2 lnX_2$$

The multiplicative model has a number of advantages; it is a reasonable way to represent human behavior. Constant elasticities are assumed; this says that a 1 percent change in ln X will lead to a given percent change in ln Y. This percent change is equal to b₁. And it lends itself easily to "a priori" analysis because the researcher does not have to worry about units of measurement when specifying relationships. In fact, the multiplicative model is considered the standard in economic problems. For additional information, see *Long-Range Forecasting: From Crystal Ball to Computer* by J. Scott Armstrong (John Wiley and Sons, 1978, pp. 180–181).

Caveats

Because projections are subject to errors from many sources, alternative projections are shown for some statis-



tical series. These alternatives are not statistical confidence intervals, but instead represent judgments made by the authors as to reasonable upper and lower bounds for each projected series. Alternative projections were developed for higher education enrollment, classroom teachers, earned degrees conferred, and expenditures in public elementary and secondary schools and institutions of higher education.

Assumptions

All projections are based on underlying assumptions, and these assumptions determine projection results to a large extent. It is important that users of projections understand the assumptions to determine the acceptability of projected time series for their purposes. In each chapter, there are descriptions of the primary assumptions upon which the projections of time series are based.

For most projections, low, middle, and high alternatives are shown. These alternatives reveal the level of uncertainty involved in making projections, and they also point out the sensitivity of projections to the assumptions on which they are based.

Many of the projections in this publication are demographically based. Bureau of the Census middle series projections of the population by age were used. These middle series population projections are based on the 1990 census. The future fertility rate assumption, which determines projections of the number of births, is the key assumption in making population projections. The middle

series population projections assume an ultimate complete cohort fertility rate of 2.09 births per woman by the year 2006 and a net immigration of 820,000 per year. This assumption plays a major role in determining population projections for the age groups enrolled in nursery school, kindergarten, and elementary grades. The effects of the fertility rate assumption are more pronounced toward the end of the projection period.

For enrollments in secondary grades and college, the fertility assumption is of no consequence, since all students enrolled at these levels were already born when the population projections were made. For projections of enrollments in elementary schools, only middle series population projections were considered. Projections of high school graduates are based on projections of the number of high school graduates expressed as a percent of grade 12 enrollment. Projections of associate, bachelor's, master's, doctor's, and first-professional degrees are based on projections of college-age populations and higher education enrollment, by sex, attendance status and level enrolled by student. and by type of institution. Many of the projections of classroom teachers and expenditures of public elementary and secondary schools and institutions of higher education are based on projections of disposable income per capita and various revenue measures of state and local governments. Disposable income per capita projections were obtained from DRI/McGraw-Hill. Therefore, the many assumptions made in projecting disposable income per capita also apply to those projections based on projections of disposable income per capita.

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A1. Emrollmemt

National

Enrollment projections were based on projected enrollment rates, by age and sex, which were applied to population projections by age and sex developed by the Bureau of the Census. These enrollment rates were projected by taking into account the most recent trends, as well as the effects of economic conditions and demographic changes on a person's decision to enter college. The enrollment rates were then used in an interactive forecasting model (IFMOD), which consists of age-specific rates by sex and by enrollment levels (nursery school through college). The model has 5 stages. See figure 70.

The first stage of IFMOD is an age-specific enrollment model in which enrollment rates are projected and applied to age-specific population projections. This stage, which is used separately for each sex, includes the following categories: (1) nursery and kindergarten, (2) elementary grades 1–8, (3) secondary grades 9–12, (4) full-time college enrollment, and (5) part-time college enrollment. For each of these enrollment categories, enrollment rates were projected by individual ages 3 through 24 and for the age groups 25 to 29, 30 to 34, and 35 years and over.

Enrollments by age and age groups from the Bureau of the Census were adjusted to NCES totals to compute enrollment rates for 1972 through 1993. Different assumptions were made to produce low, middle, and high alternative projections of enrollment rates to the year 2006.

Elementary Grades 1-8

Projections of elementary enrollment rates were considered for ages 5 through 21. Elementary enrollments are negligible for the remaining ages. Because most elementary enrollment rates have been fluctuating at levels close to 100 percent from 1972 to 1993, alternative enrollment rate projections were not computed. The only set of enrollment rate projections computed was based on the assumption that rates will remain constant through the year 2006 (table A1.1). Several of the rates in table A1.1 exceed 100 percent, as a result of several factors. The enrollment data by age were prorated to agree with NCES totals. The Bureau of the Census does not revise enrollment estimates by age, but population estimates are revised regularly.

Secondary Grades 9-12

Projections of secondary enrollment rates were considered for ages 12 through 34. Secondary enrollments are negligible for the remaining ages. Secondary enrollment rates have fluctuated within a narrow range from 1972

to 1993. Therefore, alternative enrollment rate projections were not calculated. The only set of projections computed was based on constant enrollment rates (table A1.2).

College Full-Time and Part-Time Enrollment

Projections of full-time and part-time college enrollments were considered only for ages 16 and over. (College enrollment is negligible for earlier ages.) Three alternative projections were made using various assumptions. Table A1.3 shows enrollment rates for 1993 and low, middle, and high alternative projected enrollment rates for 2001 and 2006.

Table A1.4 shows the equations used to project enrollment rates for men by attendance status. Table A1.5 shows the equations used to project age-specific enrollment rates for women by attendance status.

Enrollment in Public Elementary and Secondary Schools, by Grade Group and Organizational Level

The third stage of IFMOD projects public enrollment in elementary and secondary schools by grade group and by organizational level. Public enrollments by age were based on enrollment rate projections for nursery and kindergarten, grade 1, elementary ungraded and special, secondary ungraded and special, and postgraduate enrollment. Grade retention rate projections were used for grades 2 through 12. Table A1.6 shows the public school enrollment rates and table A1.7 shows the public grade-retention rates for 1993 and projections for 2001 and 2006. The projected rates in tables A1.6 and A1.7 were used to compute the projections of enrollments in elementary and secondary schools, by grade, shown in table 1.

College Enrollment, by Sex, Attendance Status, and Level Enrolled; and by Type and Control of Institution

The fourth stage of IFMOD projects enrollments in institutions of higher education, by sex, attendance status, and level enrolled by student and by type and control of institution. For each age group, the percent that enrollment by age, attendance status, level enrolled, and by type of institution was of total enrollment was projected. These projections are shown in tables A1.8 and A1.9, along with actual values for 1993. For all projections, it was assumed that there was no enrollment in 2-year



institutions at the postbaccalaureate level (graduate and first-professional).

The projected rates in tables A1.8 and A1.9 were then adjusted to agree with the projected age-specific enrollment rates in the first stage of IFMOD. The adjusted rates were then applied to the projected enrollments by age group, sex, and attendance status from the first stage of IFMOD to obtain projections by age group, sex, attendance status, level enrolled, and type of institution.

For each enrollment category—sex, attendance status, level enrolled, and type of institution—the percent that public enrollment was of total enrollment was projected. These projections are shown in table A1.10, along with actual percent for 1993 and projections for 2001 and 2006. The projected rates shown were then applied to the projected enrollments in each enrollment category to obtain projections by control of institution.

For each enrollment category by sex and enrollment level, and by type and control of institution, the percent that graduate enrollment was of postbaccalaureate enrollment was projected. Actual rates for 1993 and projections for 2001 and 2006 are shown in table A1.11. The projected rates in table A1.11 were then applied to projections of postbaccalaureate enrollment to obtain graduate and first-professional enrollment projections by sex and attendance status, and by type and control of institution.

Full-Time-Equivalent Enrollment, by Type and Control of Institution and by Level Enrolled

The fifth stage of IFMOD projects full-time-equivalent enrollment, by type and control of institution and by level enrolled. For each enrollment category by level enrolled and by type and control of institution, the percent that the full-time-equivalent of part-time enrollment was of part-time enrollment was projected. Actual percents for 1993 and projections for 2001 and 2006 are shown in table A1.12.

These projected percents were applied to projections of enrollment by level enrolled and by type and control of institution from the fourth stage of IFMOD. The projections of the full-time-equivalent of part-time enrollment were added to projections of full-time enrollment (from the previous stage) to obtain projections of full-time-equivalent enrollment.

Projection Accuracy

An analysis of projection errors from the past 12 editions of *Projections of Education Statistics* indicates that the mean absolute percentage errors (MAPEs) for lead times of 1, 2, 5, and 10 years out for projections of public school enrollment in grades K-12 were 0.4, 0.7, 1.4, and 2.4 percent, respectively. For the 1-year-out prediction, this means that one would expect the projection to be

within 0.4 percent of the actual value, on the average. For projections of public school enrollment in grades K-8, the MAPEs for lead times of 1, 2, 5, and 10 years were 0.6, 0.9, 1.2, and 3.6 percent, respectively, while those for projections of public school enrollment in grades 9-12 were 0.6, 0.5, 1.0, and 3.8 percent for the same lead times.

For projections of enrollment in higher education, an analysis of projection errors based on the past nine editions of *Projections of Education Statistics* indicates that the MAPEs for lead times of 1, 2, and 5 years were 2.1, 3.2, and 7.1 percent, respectively. For the 1-year-out prediction, this means that one would expect the projection to be within 2.1 percent of the actual value, on the average.

Basic Methodology

The notation and equations that follow describe the basic models used to project public elementary and secondary enrollment.

Public Elementary and Secondary Enrollment

Let:

i = Subscript denoting age

j = Subcript denoting grade

t = Subscript denoting time

 K_t = Enrollment at the nursery and kindergarten level

 G_{it} = Enrollment in grade j

 G_{1t} = Enrollment in grade 1

E_t = Enrollment in elementary special and ungraded programs

S_t = Enrollment in secondary special and ungraded programs

PG_t = Enrollment in postgraduate programs in secondary schools

P_{it} = Population age i

 RK_t = Enrollment rate for nursery and kindergarten

 RG_{1t} = Enrollment rate for grade 1

RE_t = Enrollment rate for elementary special and ungraded programs

RS, = Enrollment rate for secondary special and ungraded programs

 RPG_t = Enrollment rate for postgraduate programs

EG. = Total enrollment in elementary grades (K-8)

SG = Total enrollment in secondary grades (9–12)

Rit = Retention rate for grade j: the proportion that enrollment in grade i in year t is of enrollment in grade j-1 in year t-1.

. Then:

$$EG_t = K_t + E_t + \sum_{j=1}^{8} G_{jt}$$

$$SG_t = S_t + PG_t + \sum_{j=9}^{12} G_{jt}$$

Where:

$$K_t = RK_t(P_{5t})$$

$$G_{it} = R_{it}(G_{i-1,t-1})$$

$$E_{t} = RE_{t} \left(\sum_{i=5}^{13} P_{it} \right)$$

 G_{1t} $= RG_{1t}(P_{6t})$

$$S_{t} = RS_{t} \left(\sum_{i=1.4}^{17} P_{it} \right)$$

PG_t $= RPG_t(P_{18t})$

Higher Education Enrollment

For institutions of higher education, projections were computed separately by sex and attendance status of student. The notation and equations are:

Let:

= Subscript denoting age except:

i = 25: ages 25-29

i = 26: ages 30–34

i=27: ages 35 and over for enrollment (35– 44 for population)

= Subscript denoting year

Eir = Enrollment of students age i

Pir = Population age i

Rit = Enrollment rate for students age i

Tit = Total enrollment for particular subset of students: full-time men, full-time women, part-time men, part-time women

Then:

$$T_{it} = \sum_{i=16}^{27} E_{it}$$

Where:

$$E_{it} = R_{it}(P_{it})$$

Methodological Tables

The tables in this section give the rates used to calculate projections of enrollments, basic assumptions underlying enrollment projections (table A1.13), and methods used to estimate values for which data are not available (table A1.14).

Private School Enrollment

Projections of private school enrollment were derived in the following manner. From 1970 to 1993, the ratio of private school enrollment to public school enrollment was calculated by grade level. These ratios were projected using single exponential smoothing, yielding a constant value over the projection period. This constant was then applied to projections of public school enrollment by grade level to yield projections of private school enrollment. This method assumes that the future pattern in the trend of private school enrollment will be the same as that in public school enrollment. The reader is cautioned that a number of factors could alter the assumptions of constant ratios over the projection period.

State-Level

This edition contains projected trends in elementary and secondary enrollment by grade level in public schools from 1995 to the year 2006. This is the fifth report on state-level projections for public school elementary and secondary education statistics.

Public school enrollment data from the National Center for Education Statistics' Common Core of Data survey for 1970 to 1993 were used to develop these projections. This survey does not collect data on enrollment for private schools. In addition, population estimates for 1970 to 1994 and population projections for 1995 to 2006 from the U.S. Department of Commerce, Bureau of the Census were used to develop the projections.

Table A1.15 describes the number of years, projection methods, and smoothing constants used to project enrollments in public schools. Also included in table A1.15 is the procedure for choosing the different smoothing constants for the time series models.

The grade retention method and the enrollment rate method were used together to project public elementary and secondary school enrollment by state. The grade retention method starts with 6-year-olds entering first grade and then follows their progress through public elementary and secondary schools. The method requires calculating the ratio of the number of children in one year who "survive" the year and enroll in the next grade the following year. The enrollment rate method expresses the enrollment of a particular age group as a percent of the population for the same age group. The projections produced from these two methods were combined to yield a composite projection of enrollment.

First, projections of enrollment in public elementary and secondary schools by state were developed using primarily the grade retention method. Kindergarten and first grade enrollments are based on projected enrollment rates of 5- and 6-year-olds. These projected enrollment rates are applied to population projections of 5- and 6-year-olds developed by the Bureau of the Census.

Enrollments in grades 2 through 12 are based on projected grade retention rates. These projected rates are then applied to the current enrollment by grade to yield grade-by-grade projections for future years. Enrollment rates of 5- and 6-year-olds and retention rates are projected using single exponential smoothing. Elementary ungraded and special enrollments and secondary ungraded and special enrollments are projected to remain constant at their 1993 levels. To obtain projections of total enrollment, projections of enrollments for the individual grades (kindergarten through 12) and ungraded and special classes were summed.

Second, projections of enrollments in public elementary and secondary schools by state were developed using the enrollment rate method. Enrollment in grades K-8 was expressed as a percent of the 5- to 13-year-old population for 1970 to 1993. Similarly, enrollment in grades 9-12 was expressed as a percent of the 14- to 17-year-old population. These percents were then projected using single exponential smoothing and applied to projections of the 5- to 13-year-old and 14- to 17-year-old populations developed by the Bureau of the Census.

The enrollment rate and grade retention methods assume that past trends in factors affecting public school enrollments will continue over the projection period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. Therefore, this method has limitations when applied to states with unusual changes in migration rates. This method implicitly includes the net effect of such factors as migration, dropouts, deaths, nonpromotion, and transfers to and from private schools.

Combining Enrollment Projections

Projections of public school enrollment are based on the grade retention and enrollment rate methods. Empirical research on national models suggests that the enrollment rate method is superior to the grade retention method as the lead time of the projection increases. For longer lead times, the mean absolute percentage errors of the projections of national public school enrollment based on the enrollment rate method are smaller than those based on the grade retention method. It is reasoned that because the projections based on the enrollment rate method depend on population projections, they reflect long-term shifts in state migration patterns as projected by the Bureau of the Census. On the other hand, the projections based on the grade retention method reflect the net effects of state in- and out-migration for the short term.

For a particular year, the projections of enrollments developed using the grade retention and enrollment rate methods were combined using a simple linear combination of the projections as follows:

$$E = bX_1 + (1-b)X_2$$

Where:

E = combined enrollment projection

 X_1 = projection based on the grade retention rate

 X_2 = projection based on the enrollment rate method

b = weight

Here, b is an adaptive parameter that changes in time to give the most weight to longer lead times for the most successful of the two projection methods, the enrollment rate. Table A1.16 presents the weights used to combine the two methods.

The sum of the weights b and 1-b is constrained to sum to 1. Empirical evidence suggests that the enrollment rate method is superior to the grade retention method for long lead times and that the grade retention method is more accurate for short lead times.

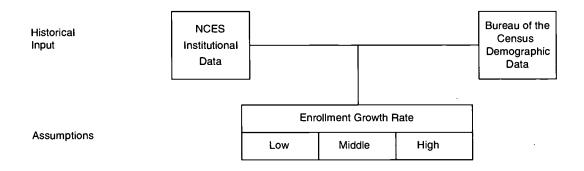


Adjustment to National Projections

The sum of the projections of state enrollments was adjusted to add to the national projections of public school K-12, K-8, and 9-12 enrollments shown in table 1. For details on the methods used to develop the national projections for this statistic, see the section on national enrollment projections in this appendix.



Figure 70 General structure and methodology of the Interactive Forecasting Model (IFMOD)



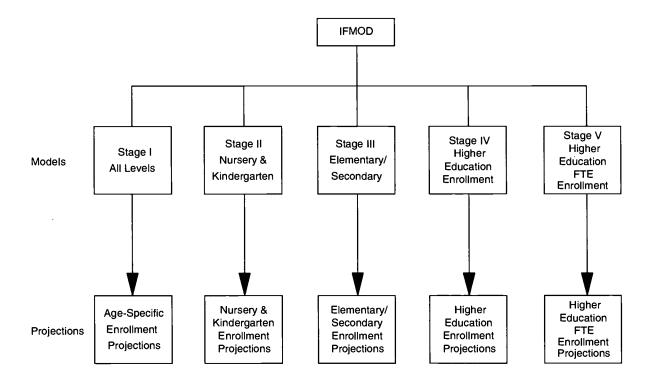




Table A1.1.—Elementary enrollment rates, by age and sex

| Ago | E | Boys | · G | irls |
|-------|-------|-----------|-------|-----------|
| Age — | 1993 | 1995–2006 | 1993 | 1995–2006 |
| 5 | 6.0 | 5.6 | 6.8 | 6.2 |
| 6 | 84.4 | 84.7 | 90.8 | 89.5 |
| 7 | 104.6 | 104.4 | 104.3 | 104.4 |
| 8 | 106.9 | 106.5 | 105.4 | 106.7 |
| 9 | 101.4 | 101.0 | 102.0 | 100.7 |
| 0 | 100.4 | 100.6 | 101.1 | 100.6 |
| 1 | 101.5 | 94.2 | 105.0 | 104.7 |
| 2 | 103.1 | 108.8 | 95.4 | 100.1 |
| 3 | 96.1 | 100.3 | 101.4 | 98.1 |
| 4 | 36.2 | 38.3 | 26.8 | 25.6 |
| 5 | 6.4 | 6.7 | 4.4 | 4.3 |
| 6 | 0.8 | 0.7 | 0.8 | 0.4 |
| 7 | 0.5 | 0.2 | 0.1 | 0.0 |
| 8 | 0.1 | 0.0 | 0.0 | 0.1 |

Table A1.2.—Secondary enrollment rates, by age and sex

| Ago | I | Boys | G | irls |
|-------|------|-----------|------|-----------|
| Age — | 1993 | 1995–2006 | 1993 | 1995-2006 |
| 2 | 0.5 | 0.4 | 0.6 | 0.4 |
| 3 | 4.5 | 4.7 | 5.8 | 6.2 |
| 4 | 62.4 | 62.0 | 72.8 | 73.5 |
| 5 | 90.5 | 90.0 | 91.3 | 91.8 |
| 6 | 91.5 | 92.1 | 93.3 | 93.4 |
| 7 | 84.2 | 82.4 | 80.8 | 80.3 |
| 8 | 31.2 | 29.8 | 19.1 | 18.8 |
| 9 | 8.0 | 7.1 | 5.6 | 4.8 |
| 0 | 1.7 | 1.5 | 0.8 | 1.2 |
| .1 | 0.7 | 0.7 | 0.6 | 0.7 |
| 22 | 0.5 | 0.5 | 0.4 | 0.4 |
| 3 | 0.1 | 0.3 | 0.3 | 0.5 |
| 4 | 0.7 | 0.5 | 0.5 | 0.5 |
| 5–29 | 0.3 | 0.2 | 0.4 | 0.4 |
| 30–34 | 0.2 | 0.2 | 0.4 | 0.3 |



Table A1.3.—College enrollment rates, by age, sex, and attendance status, with alternative projections

| A | 1002 | Low alter | native | Middle alte | ernative | High alternative | | |
|---------------------------------|--------|-----------|--------|-------------|----------|------------------|------|--|
| Age, sex, and attendance status | 1993 - | 2001 | 2006 | 2001 | 2006 | 2001 | 2006 | |
| Men | | | | | | | | |
| Full-time: | | | | | | | | |
| 16 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | |
| 17 | 2.9 | 2.8 | 2.8 | 3.2 | 3.3 | 3.3 | 3.: | |
| 18 | 28.7 | 28.7 | 28.7 | 30.9 | 31.8 | 31.2 | 32. | |
| 19 | 31.9 | 31.9 | 31.9 | 34.7 | 35.7 | 35.2 | 36. | |
| 20 | 26.9 | 26.9 | 26.9 | 28.8 | 29.6 | 28.9 | 30. | |
| 21 | 25.9 | 25.9 | 25.9 | 28.2 | 28.9 | 28.5 | 29. | |
| 22 | | | | | | | | |
| | 19.2 | 19.2 | 19.2 | 20.5 | 21.1 | 20.9 | 21. | |
| 23 | 13.2 | 13.2 | 13.2 | 14.4 | 14.8 | 14.9 | 15. | |
| 24 | 10.8 | 10.8 | 10.8 | 13.6 | 13.6 | 14.6 | 15. | |
| 25-29 | 4.2 | 4.2 | 4.2 | 4.3 | 4.5 | 4.5 | 4. | |
| 30-34 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 2. | |
| 35-44 | 1.1 | 1.1 | 1.1 | 2.3 | 2.3 | 2.7 | 3. | |
| Part-time: | | | | | | | | |
| 16 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0. | |
| 17 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.8 | 0. | |
| 18 | 3.9 | 3.9 | 3.9 | 4.1 | 4.1 | 4.4 | 4. | |
| | | | | | | | | |
| 19 | 4.3 | 4.3 | 4.3 | 4.6 | 4.6 | 4.9 | .4. | |
| 20 | 5.8 | 5.8 | 5.8 | 6.1 | 6.1 | 6.4 | 6. | |
| 21 | 5.6 | 5.6 | 5.6 | 6.2 | 6.2 | 6.5 | 6. | |
| 22 | 9.1 | 9.1 | 9.1 | 9.9 | 9.9 | 10.0 | 12. | |
| 23 | 6.2 | 6.2 | 6.2 | 6.5 | 6.6 | 6.9 | 7. | |
| 24 | 5.2 | 5.2 | 5.2 | 5.4 | 5.5 | 5.9 | 6. | |
| 25-29 | 5.3 | 4.9 | 4.9 | 5.1 | 5.2 | 5.2 | 5. | |
| 30-34 | 4.1 | 3.8 | 3.8 | 4.0 | 4.0 | 4.1 | 4. | |
| 35-44 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4. | |
| Women | | | | | | | | |
| Full-time: | | | | | | | | |
| 16 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0. | |
| | | | | | | | | |
| 17 | 4.1 | 4.1 | 4.1 | 4.5 | 4.5 | 4.7 | 4. | |
| 18 | 36.2 | 36.2 | 36.2 | 37.6 | 39.0 | 43.1 | 43. | |
| 19 | 37.8 | 37.8 | 37.8 | 40.0 | 42.1 | 45.0 | 45. | |
| 20 | 32.0 | 32.0 | 32.0 | 33.9 | 35.4 | 39.7 | 39. | |
| 21 | 29.2 | 29.2 | 29.2 | 30.4 | 31.4 | 35.4 | 35. | |
| 22 | 15.1 | 15.1 | 15.1 | 18.5 | 18.5 | 18.9 | 18. | |
| 23 | 12.3 | 12.3 | 12.3 | 14.5 | 16.0 | 17.2 | 17. | |
| 24 | 9.1 | 9.1 | 9.1 | 11.7 | 12.4 | 12.3 | 12. | |
| 25-29 | 3.7 | 3.7 | 3.7 | 4.3 | 4.3 | 4.9 | 4. | |
| 30-34 | 2.1 | 2.1 | 2.1 | 2.5 | 2.5 | 2.8 | 2. | |
| 35-44 | 1.8 | 1.8 | 1.8 | 2.1 | 2.1 | 2.5 | 2. | |
| | 1.0 | | | 2 | 2.1 | 2.0 | | |
| Part-time: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0. | |
| 17 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0. | |
| 18 | 5.4 | 5.4 | 5.4 | 6.7 | 6.7 | 6.6 | 7. | |
| 19 | 5.6 | 5.6 | 5.6 | 6.3 | 6.3 | 6.7 | 6. | |
| 20 | 6.7 | 6.7 | 6.7 | 7.7 | 8.2 | 8.4 | 8. | |
| 21 | 6.2 | 6.2 | 6.2 | 7.3 | 7.9 | 7.8 | 8. | |
| 22 | 10.5 | 10.5 | 10.5 | 11.3 | 12.1 | 13.6 | 13. | |
| 23 | 8.7 | 8.7 | 8.7 | 8.8 | 9.2 | 11.6 | 11. | |
| 24 | 6.4 | 6.4 | 6.4 | 6.5 | 6.8 | 7.8 | | |
| | | | | | | | 7. | |
| 25-29 | 6.9 | 6.9 | 6.9 | 7.8 | 8.4 | 9.7 | 9. | |
| 30-34 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5. | |
| 35-44 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7. | |



Table A1.4.—Full-time and part-time equations for college enrollment rates of men

| Independent variable | Coefficient | Standard error | T-statistic | R ² | F-Statistic |
|--|--------------|-------------------|-------------|----------------|-------------|
| Full-time | _ | | | | |
| Constant | -3.39 | 0.43 | -7.8 | .99 | 692.1 |
| Dummy18 | 2.43 | 0.07 | 33.8 | | |
| Dummy19 | 2.48 | 0.09 | 28.5 | | |
| Dummy20 | 2.34 | 0.09 | 26.4 | | |
| Dummy21 | 2.25 | 0.08 | 27.5 | | |
| Dummy22 | 1.82 | 0.16 | 11.4 | | |
| Dummy23 | 1.39 | 0.10 | 13.8 | | |
| Dummy24 | 1.14 | 0.16 | 7.1 | | |
| Dummy25-29 | 0.36 | 0.13 | 2.9 | | |
| Dummy30-34 | -0.60 | 0.10 | -6.1 | | |
| Dummy35-44 | -1.28 | 0.15 | -8.4 | | |
| Log Unemployment rate (LNURM) | 0.09 | | | | |
| Log of four-period weighted average of per capita real disposable income | 0.09 | 0.05 | 1.9 | | |
| (LNPCIMA) | 0.09 | 0.17 | 0.5 | | |
| Rho17 | 0.07 | 0.24 | 0.3 | | |
| Rho18 | 0.48 | 0.19 | 2.5 | | |
| Rho19 | 0.61 | 0.19 | 3.2 | | |
| Rho20 | 0.54 | 0.19 | 2.8 | | |
| Rho21 | 0.50 | 0.21 | 2.4 | | |
| Rho22 | 0.80 | 0.16 | 4.8 | | |
| Rho23 | 0.46 | 0.22 | 2.1 | | |
| Rho24 | 0.48 | 0.16 | 4.9 | | |
| Rho25-29 | 0.78 | | | | |
| Rho30-34 | | 0.16 | 4.4 | | |
| Rho35-44 | 0.30 0.61 | 0.21 0.18 | 1.4 3.4 | | |
| Part-time | 0.01 | 0.10 | 5.4 | | |
| Constant | -7.01 | 0.30 | 22.6 | 0.4 | 00.3 |
| Dummy18 | 2.25 | | -23.6 | .94 | 88.3 |
| Dummy19 | | 0.07 | 30.7 | | |
| Dummy20 | 2.32 | 0.07 | 32.0 | | |
| - | 2.66 | 0.08 | 34.6 | | |
| Dummy21 | 2.53 | 0.09 | 28.7 | | |
| Dummy22 | 2.98 | 0.12 | 25.2 | | |
| Dummy23 | 2.58 | 0.10 | 26.5 | | |
| Dummy24 . | 2.27 | 0.08 | 28.7 | | |
| Dummy25-29 | 2.53 | 0.11 | 23.4 | | |
| Dummy30-34 | 2.22 | 0.13 | 17.7 | | |
| Dummy35-44 | 2.06 | 0.10 | 21.1 | | |
| Log Unemployment rate (LNURM) | 0.07 | 0.02 | 3.0 | | |
| Log four-period weighted average of per capita real disposable income | | | | | |
| (LNPCIMA) | 0.73 | 0.12 | 6.3 | | |
| Rho17 | -0.65 | 0.22 | -3.0 | | |
| Rho18 | -0.28 | 0.27 | -1.1 | | |
| Rho19 | -0.32 | 0.30 | -1.1 | | |
| Rho20 | 0.39 | 0.25 | 1.5 | | |
| Rho21 | 0.59 | 0.24 | 2.4 | | |
| Rho22 | 0.07 | 0.31 | 0.2 | | |
| Rho23 | 0.01 | 0.28 | 0.1 | | |
| Rho24 | -0.12 | 0.27 | -0.4 | | |
| Rho25-29 | 0.52 | 0.19 | 2.7 | | |
| Rho30-34 | 0.61 | 0.18 | 3.3 | | |
| Kiloso s i | | | | | |

 R^2 = Coefficient of determination. F-Statistic = Obtained statistic for the F value.

Where:

Dummy(age) = 1 for each age and 0 otherwise = Log unemployment rates by age LNPCIMA = Log of four-period weighted average of per capita real disposable income

NOTE: The regression method used to estimate the full-time and part-time equations was pooled least squares with first-order autocorrelation correction. The time period used in the full-time equation is from 1972 to 1993. The number of observations is 242. The time period used in the part-time equation is from 1978 to 1992. The number of observations is 165.



Table A1.5.—Equations for college enrollment rates of women, by age and attendance status

| | Equation | R 2 | Durbin-Watson statistic ¹ | Estimation technique ² | Rho |
|-----------|--|------|---|-----------------------------------|--------------|
| RTFT18W | = 0.16 + 0.000013PCI87 (4.6) | 0.84 | 2.1 | ARI | 0.57 |
| RTPT18W | = -0.08 + 0.00001P18W + 0.000007PCI87 (2.5) (11.2) | 0.94 | 1.8 | OLS | |
| | + 0.55URW1819 (2.5) | | | | |
| RTFT19W | = 0.03 + 0.00002 PCI87 (4.1) | 0.92 | 1.8 | ARI | 0.83 (5.0 |
| RTPT19W | = -0.058 + 0.000007PCI87 + 0.061URW1819 (11.7) (2.1) | 0.95 | 1.8 | ARI | 0.4: (1.7 |
| RTFT20W | = 0.024 + 0.000018PC187 (3.0) | 0.92 | 1.4 | ARI | 0.89 (6.4 |
| RTPT20W | = -0.027 - 0.00001P20W + 0.000007PC187 (-2.3) (17.1) | 0.95 | 1.9 | OLS | |
| | + 0.17URW2024 (4.4) | • | | | |
| RTFT21W | = 0.095 - 0.000097P21W + 0.000021PCI87 (-2.4) (3.8) | 0.94 | 1.5 | ARI | 0.8 (5.4 |
| | + 0.53URW2024 (2.3) | | | ٠ | |
| RTPT21W | = -0.028 - 0.0000015P21W + 0.0000071PCI87 (-2.4) (17.3) | 0.95 | 1.5 | OLS | |
| | + 0.166URW2024 (3.9) | | | | |
| RTFT22W | = -0.23 + 0.000024PCI87 + 0.22URW2024 (10.5) (2.0) | 0.98 | 2.0 | ARI | 0.7 (4. |
| RTPT22W | = -0.043 + 0.0000085PC187 + 0.18URW2024 $(4.6) (2.0)$ | 0.87 | 1.8 | ARI | 0.7 (3.6 |
| RTFT23W | = -0.17 + 0.000017PCI87 + 0.22URW2024 (4.8) (2.0) | 0.95 | 1.4 | ARI | 0.8 (5.3 |
| RTPT23W | = -0.007 + 0.0000056PC187 (2.5) | 0.80 | 1.5 | ARI | 0.7 (4. |
| RTFT24W | = -0.086 - 0.00003P24W + 0.000014PC187 (-2.4) (7.9) | 0.96 | 1.8 | ARI | 0.7 (3.5 |
| | + 0.25URW2024 (3.6) | | | | |
| RTPT24W | = 0.012 + 0.0000031PCI87 (2.1) | 0.72 | 1.1 | ARI | 0.7 (5. |
| RTFT2529W | = -0.05 + 0.0000051PCI87 + 0.18URW25& (9.8) (5.2) | 0.97 | 1.5 | ARI | 0.7 (4. |
| RTPT2529W | = -0.02 + 0.0000056PCI87 + 0.12URW25& (5.4) (2.0) | 0.94 | 1.3 | ARI | 0.8 (6. |
| RTFT3034W | = -0.24 + 0.0000028PCI87 + 0.055URW25& (9.8) (2.0) | 0.95 | 2.0 | ARI | 0.5 (2. |

Table A1.5.—Equations for college enrollment rates of women, by age and attendance status—Continued

| | | Equation | R ² | Durbin-Watson statistic ¹ | Estimation technique ² | Rho |
|-----------|-----|--|----------------|---|-----------------------------------|---------------|
| RTPT3034W | • = | -0.031 + 0.0000049PCI87 + 0.24URW25& (2.7) (3.3) | 0.95 | 1.2 | ARI | 0.94 (9.4) |
| RTFT3544W | = | -0.027 + 0.0000028PCI87 + 0.05URW25& (10.7) (1.9) | 0.95 | 2.2 | ARI | 0.51 (2.3) |
| RTPT3544W | = | -0.056 + 0.0000082PCI87 + 0.18URW25& (5.5) (2.1) | 0.95 | 1.6 | ARI | 0.82 (5.8) |

R² = Coefficient of determination.

¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252.

²OLS = Ordinary Least Squares. AR1 is an estimation procedure for correcting the problem of first-order autocorrelation. For a general discussion of the problem of autocorrelation, and the methods to correct it, see Johnston (1972), chapter 8. For a discussion of the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, The Theory and Practice of Econometrics, New York: John Wiley and Sons, 1985, pages 315-318. Rho is the first order autocorrelation coefficient estimated when AR1 is used.

Where:

| RTFT18W | =Enrollment rate of 18-year-old women enrolled full- time |
|---------|---|
| RTPT18W | =Enrollment rate of 18-year-old women enrolled part- time |
| RTFT19W | =Enrollment rate of 19-year-old women enrolled full- time |
| RTPT19W | =Enrollment rate of 19-year-old women enrolled part- time |
| RTFT20W | =Enrollment rate of 20-year-old women enrolled full- time |
| RTPT20W | =Enrollment rate of 20-year-old women enrolled part-time |
| RTFT21W | =Enrollment rate of 21-year-old women enrolled full- time |
| RTPT21W | =Enrollment rate of 21-year-old women enrolled part- time |
| RTFT22W | =Enrollment rate of 22-year-old women enrolled full- time |
| RTPT22W | =Enrollment rate of 22-year-old women enrolled part- time |
| | |

| | The second secon |
|-----------|--|
| RTPT23W | =Enrollment rate of 23-year-old women enrolled part- time |
| RTFT24W | =Enrollment rate of 24-year-old women enrolled full- time |
| RTPT24W | =Enrollment rate of 24-year-old women enrolled part- time |
| RTFT2529W | =Enrollment rate of 25- to 29-year-old women enrolled |
| | full- time |
| RTPT2529W | =Enrollment rate of 25- to 29-year-old women enrolled |
| | part- time |
| RTFT3034W | =Enrollment rate of 30- to 34-year-old women enrolled |
| | full- time |
| RTPT3034W | =Enrollment rate of 30- to 34-year-old women enrolled |
| | part- time |
| RTFT3544W | Enrollment rate of 35- to 44-year-old women enrolled |
| | full- time |
| RTPT3544W | =Enrollment rate of 35- to 44-year-old women enrolled |
| | part- time |
| P18W | =Population of 18-year-old women |
| P20W | =Population of 20-year-old women |
| P21W | =Population of 21-year-old women |
| P24W | =Population of 24-year-old women |
| PCI87 | =Disposable income per capita in 1986–87 dollars |
| URW1819 | =Unemployment rate of 18- to 19-year-olds |
| URW2024 | =Unemployment rate of 20- to 24-year-olds |
| URW25& | =Unemployment rate of 25 years old and over |
| | · · |

RTFT23W =Enrollment rate of 23-year-old women enrolled full-time

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1972 to 1993.



Table A1.6.—Enrollment rates in public schools, by grade level

| | D 144 1 | 1002 | Projected | | |
|---------------------------------|---------------------|-------|-----------|-------|--|
| Grade level | Population base age | 1993 | 2001 | 2006 | |
| Kindergarten | 5 | 103.8 | 101.2 | 101.2 | |
| Grade I | 6 | 94.6 | 95.6 | 95.6 | |
| Elementary ungraded and special | 5–13 | 1.5 | 1.6 | 1.6 | |
| Secondary ungraded and special | 14-17 | 1.7 | 1.8 | 1.8 | |
| Postgraduate | 18 | 0.3 | 0.3 | 0.3 | |

Table A1.7.—Public school grade retention rates

| | 1003 | Project | ed |
|----------|-------|---------|-------|
| Grade | 1993 | 2001 | 2006 |
| 1 to 2 | 96.8 | 96.2 | 96.2 |
| 2 to 3 | 100.2 | 100.1 | 100.1 |
| 3 to 4 | 100.0 | 100.2 | 100.2 |
| to 5 | 100.3 | 100.4 | 100.4 |
| 5 to 6 | 100.9 | 101.1 | 101.1 |
| to 7 | 101.6 | 102.1 | 102.1 |
| to 8 | 98.5 | 98.4 | 98.4 |
| to 9 | 111.4 | 111.0 | 111.0 |
| to 10 | 91.0 | 91.6 | 91.6 |
| 0 to 11 | 90.9 | 91.0 | 91.0 |
| 11 to 12 | 91.3 | 91.3 | 91.3 |



Table A1.8.—Full-time enrollment, by level enrolled and type of institution, as a percent of total enrollment, for each age and sex classification

| Age — | | Men | | | Women | |
|-------------------|------|------|--------------------|---------------------|-------|------|
| | 1993 | 2001 | 2006 | 1993 | 2001 | 2006 |
| | | | Undergraduate, 4 | -year institutions | | |
| 16-17 years old | 82.6 | 75.4 | 75.4 | 74.1 | 68.2 | 68.2 |
| 18-19 years old | 66.8 | 66.0 | 66.0 | 69.7 | 69.3 | 69.3 |
| 20-21 years old | 79.9 | 792 | 79.2 | 78.9 | 79.0 | 79.0 |
| 22-24 years old | 61.8 | 62.9 | 62.9 | 60.5 | 60.9 | 60.9 |
| 25-29 years old | 47.2 | 44.6 | 44.6 | 35.6 | 38.8 | 38.8 |
| 30-34 years old | 31.6 | 30.8 | 30.8 | 41.2 | 41.1 | 41.1 |
| 35 years and over | 32.5 | 32.9 | 32.9 | 41.7 | 41.6 | 41.6 |
| | | | Undergraduate, 2 | -year institutions | | |
| 16-17 years old | 17.4 | 24.5 | 24.5 | 25.9 | 31.8 | 31.8 |
| 18-19 years old | 33.1 | 33.9 | 33.9 | 30.0 | 30.6 | 30.6 |
| 20-21 years old | 20.0 | 20.0 | 20.0 | 20.4 | 20.1 | 20.1 |
| 22-24 years old | 18.8 | 17.0 | 17.0 | 17.6 | 17.4 | 17.4 |
| 25-29 years old | 17.5 | 16.8 | 16.8 | 27.5 | 27.8 | 27.8 |
| 30-34 years old | 24.6 | 23.6 | 23.6 | 37.5 | 38.1 | 38.1 |
| 35 years and over | 29.6 | 285 | 28.5 | 39.4 | 35.4 | 35.4 |
| | | I | Postbaccalaureate, | 4-year institutions | | |
| 16–17 years old | _ | _ | _ | · — | _ | |
| 18–19 years old | _ | _ | _ | _ | _ | _ |
| 20–21 years old | | _ | | | | |
| 22-24 years old | 19.5 | 20.1 | 20.1 | 21.9 | 21.7 | 21.7 |
| 25-29 years old | 35.3 | 38.6 | 38.6 | 36.9 | 33.4 | 33.4 |
| 30-34 years old | 43.8 | 45.6 | 45.6 | 21.3 | 20.9 | 20.9 |
| 35 years and over | 37.9 | 38.6 | 38.6 | 18.8 | 23.0 | 23.0 |

⁻Not applicable.

NOTE: Projections shown for 2001 and 2006 were adjusted to add to 100 percent before computing projections shown in tables 3 through 22.



| | | Men | | | Women | |
|-------------------|-------|------|--------------------|---------------------|-------|------|
| Age — | 1993 | 2001 | 2006 | 1993 | 2001 | 2006 |
| | | | Undergraduate, 4 | -year institutions | | |
| 16-17 years old | 12.9 | 095 | 09.5 | 21.6 | 12.0 | 12.0 |
| 18-19 years old | 18.4 | 206 | 20.6 | 17.0 | 15.4 | 15.4 |
| 20-21 years old | 24.0 | 22.5 | 22.5 | 26.5 | 26.0 | 26.0 |
| 22-24 years old | 31.0 | 32.7 | 32.7 | 33.2 | 31.7 | 31.7 |
| 25-29 years old | 34.1 | 30.9 | 30.9 | 23.3 | 25.7 | 25.7 |
| 30-34 years old | 29.6 | 27.9 | 27.9 | 25.3 | 26.1 | 26.1 |
| 5 years and over | 225 | 24.9 | 24.9 | 26.1 | 25.8 | 25.8 |
| 3 years and over | | | Undergraduate, 2 | -year institutions | | |
| 6-17 years old | 91.9 | 72.8 | 72.8 | 78.4 | 49.7 | 49.7 |
| 8-19 years old | 82.0 | 79.2 | 79.2 | 83.0 | 84.5 | 84.5 |
| 0-21 years old | 75.5 | 77.0 | 77.0 | 73.5 | 73.7 | 73.7 |
| 22-24 years old | 57.1 | 57.2 | 57.2 | 53.9 | 55.8 | 55.8 |
| 25-29 years old | 46.4 | 50.5 | 50.5 | 58.8 | 54.6 | 54.6 |
| 0-34 years old | 47.2 | 47.9 | 47.9 | 56.0 | 56.6 | 56.6 |
| 5 years and over | 49.8 | 47.4 | 47.4 | 51.7 | 52.3 | 52.3 |
| 5 years and over | 17.10 | | Postbaccalaureate, | 4-year institutions | } | |
| 6-17 years old | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18-19 years old | 0.0 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 |
| 20-21 years old | 0.6 | 0.5 | 0.5 | 0.0 | 0.3 | 0.3 |
| 22-24 years old | 11.9 | 10.1 | 10.1 | 12.9 | 12.5 | 12.5 |
| 25-29 years old | 19.5 | 18.5 | 18.5 | 17.9 | 19.6 | 19.6 |
| 30-34 years old | 23.2 | 24.2 | 24.2 | 18.7 | 17.3 | 17.3 |
| 35 years and over | 27.8 | 27.7 | 27.7 | 22.2 | 21.9 | 21.9 |

NOTE: Projections shown for 2001 and 2006 were adjusted to add to 100 percent before computing projections shown in tables 3 through 22.



Table A1.10.—Public college enrollment as a percent of total enrollment, by attendance status, sex, level enrolled, and by type of institution

| Enrollment category | Men | | | Women | | | |
|---|------|------|------|-------|------|------|--|
| | 1993 | 2001 | 2006 | 1993 | 2001 | 2006 | |
| Full-time, undergraduate, 4-year institutions | 69.6 | 69.7 | 69.7 | 68.2 | 68.6 | 68.6 | |
| Part-time, undergraduate, 4-year institutions | 72.4 | 72.6 | 72.6 | 68.4 | 69.2 | 69.2 | |
| Full-time, undergraduate, 2-year institutions | 92.5 | 92.1 | 92.1 | 92.4 | 91.3 | 91.3 | |
| Part-time, undergraduate, 2-year institutions | 97.8 | 97.7 | 97.7 | 98.0 | 98.0 | 98.0 | |
| Full-time, postbaccalaureate, 4-year institutions | 55.5 | 55.9 | 55.9 | 57.9 | 58.7 | 58.7 | |
| Part-time, postbaccalaureate, 4-year institutions | 58.5 | 58.6 | 58.6 | 64.5 | 65.5 | 65.5 | |

Table A1.11.—Graduate enrollment as a percent of total postbaccalaureate enrollment, by sex and attendance status, and by type and control of institution

| Enrollment categoy | Men | | | Women | | |
|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | 1993 | 2001 | 2006 | 1993 | 2001 | 2006 |
| Full-time, 4-year, public | 78.4 98.8 58.8 91.2 | 77.5 98.7 58.2 91.6 | 77.5 98.7 58.2 91.6 | 81.5 99.5 68.1 94.8 | 81.1 99.4 66.6 95.2 | 81.1 99.4 66.6 95.2 |

Table A1.12.—Full-time-equivalent of part-time enrollment as a percent of part-time enrollment, by level enrolled and by type and control of institution

| Enrollment category | 1993 | 2001 | 2006 |
|-------------------------------------|------|------|------|
| Public, 4-year, undergraduate | 40.0 | 40.0 | 40.0 |
| Public, 2-year, undergraduate | 33.6 | | 40.0 |
| Private, 4-year, undergraduate | | 33.8 | 33.8 |
| Private 2 year undergraduate | 40.0 | 39.9 | 39.9 |
| Private, 2-year, undergraduate | 39.2 | 39.3 | 39.3 |
| Public, 4-year, graduate | 36.2 | 36.3 | 36.3 |
| rnvate, 4-year, graduate | 38.3 | 38.2 | 38.2 |
| Public, 4-year, first-professional | 80.0 | 63.9 | |
| Private, 4-year, first-professional | | | 63.9 |
| Treat, Tyour, this professional | 55.6 | 55.8 | 55.8 |



Table A1.13.—Enrollment (assumptions)

| Variables | Assumptions | Alternatives | Tables |
|--|---|-----------------------------|-------------|
| Elementary and Secondary enrollment | Age-specific enrollment rates will remain constant at levels consistent with the most recent rates. | Middle (no alternatives) | 1, 2 |
| | Public enrollment rates and public grade retention rates will remain constant at levels consistent with the most recent rates. | Middle (no alternatives) | 1, 2 |
| _ | The percentage of 7th and 8th grade public students enrolled in school organized as secondary schools will remain constant at levels consistent with the most recent rates. | Middle (no alternatives) | |
| College full-time and part-time enrollment, by age | | | |
| Men | Age-specific enrollment rates will increase over the projection period. | Middle | 35 9-16 |
| | Age-specific enrollment rates will remain at their most recent levels. | Low | 3–5 9–16 |
| | Age-specific enrollment rates will either equal the middle alternative or increase at a faster rate. | High | 3–5 9–16 |
| Women | Age-specific enrollment rates will increase over the projection period. | Middle | 3-5 9-16 |
| | Age-specific enrollment rates will remain at their most recent levels. | Low | 3-5 9-16 |
| | Age-specific enrollment rates will either equal the middle alternative or increase at a faster rate. | High | 3–5 9–16 |
| College enrollment, by sex, attendance status, and level enrolled by student, and by type of institution | For each group and for each attendance status separately, en- rollment by sex and level enrolled by student, and by type of institution as a percent of total enrollment, will follow past trends through 2006. For each age group and attendance sta- tus category, the restriction that the sum of the percentages must equal 100 percent was applied. | High, middle, and low | 3–5 9–16 |
| College enrollment, by control of institution | For each enrollment category, by sex, attendance status, and level enrolled by student, and by type of institution, public enrollment as a percent of total enrollment will remain constant at levels consistent with the most recent rates. | High, middle, and low | 3–5 9–16 |
| Graduate enrollment | For each enrollment category, by sex and attendance status of student, and by type and control of institution, graduate enrollment as a percent of postbaccalaureate enrollment will remain constant at levels consistent with the most recent rates. | High, middle, and low | 17 |
| Full-time-equivalent of part-time enrollment | For each enrollment category, by type and control of institu- tion and level enrolled by student, the percent that full-time- equivalent of part-time enrollment is of part-time enrollment will remain constant at levels consistent with the most recent rates. | High, middle, and low | 23-25 |

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Table A1.14.—Enrollment (estimation methods)

| Variables | Years | Estimation method | Tables |
|--|----------------------|---|-------------|
| Enrollment in private elementary and secondary schools, by level | 1988 1989 1990 | Grade-by-grade data for private elementary, secondary, and combined schools were aggregated to estimate private school enrollment by grade level. | 1 2 |
| Enrollment in institutions of higher education, by age and attendance status | 1986 1991 1994 | For each sex, enrollment data from the Bureau of Census by individual ages and by attendance status for 2-year age groups were combined by assuming that within the 2-year age groups, age and attendance status were distributed independently. The resultant enrollment estimates by age and attendance status were then adjusted to NCES enrollment counts by attendance status. | 6 7 8 |

Table A1.15—Number of years, projection methods, and smoothing constants used to project public school enrollments and high school graduates, by state

| Projected state variable | Number of years (1970–1993) | Projection method | Smooth- ing constant | Choice of smoothing constant |
|--------------------------|-----------------------------|------------------------------|----------------------------|------------------------------|
| Grade retention rates | 24 | Single exponential smoothing | 0.4 | Empirical research |
| | 24 | Single exponential smoothing | 0.4 | Empirical research |
| | 24 | Single exponential smoothing | 0.4 | Empirical research |

Table A1.16—Weights used to combine the enrollment projections, by projection method and lead time

| Projection method | | Lead time, in years | | | | | | | | | | |
|-------------------|-----|---------------------|------------|------------|------------|------------|------------|------------|------------|----|----|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Grade retention | 1 0 | 8/9 1/9 | 7/9 2/9 | 6/9 3/9 | 5/9 4/9 | 4/9 5/9 | 3/9 6/9 | 2/9 7/9 | 1/9 8/9 | 0 | 0 | 0 1 |



A2. High School Graduates

National

Projections of public high school graduates were developed in the following manner. The number of public high school graduates was expressed as a percent of grade 12 enrollment in public schools for 1972 to 1993. This percent was projected using single exponential smoothing and applied to projections of grade 12 enrollment to yield projections of high school graduates in public schools. (The dropout rate is not related to this percent. This percent does not make any assumptions regarding the dropout rate.) The grade 12 enrollment was projected based on grade-by-grade retention rates and population projections developed by the Bureau of the Census. This percent was assumed to remain constant at levels consistent with the most recent rates. This method assumes that past trends in factors affecting graduation will continue over the projection period.

Projections of private high school graduates were derived in the following manner. From 1970–71 to 1993–94, the ratio of private high school graduates to public school graduates was calculated. These ratios were projected using single exponential smoothing, yielding a constant value over the projection period. This constant value was then applied to projections of public high school graduates to yield projections of private high school graduates. This method assumes that the future pattern of private high school graduates will be the same as that of public high school graduates. The reader should be aware that a number of factors could alter the assumption of a constant ratio over the projection period.

Projection Accuracy

An analysis of projections from models used in the past 12 editions of *Projections of Education Statistics* indicates that the mean absolute percentage errors (MAPEs) for projections of public high school graduates were 0.6 percent for 1 year ahead, 1.0 percent for 2 years ahead, 1.5 percent for 5 years ahead, and 3.8 percent for 10 years ahead. For the 2-year-ahead prediction, this means that one would expect the projection to be within 1.0 percent of the actual value, on the average.

State-Level

This edition contains projections of high school graduates from public schools by state from 1994–95 to 2005–2006. Public school graduate data from the National Center for Education Statistics' Common Core of Data survey for 1969–70 to 1993–94 were used to develop these projections. This survey does not collect graduate data for private schools.

Projections of public high school graduates by state were developed in the following manner. For each state, the number of public high school graduates was expressed as a percent of grade 12 enrollment in public schools for 1970 to 1993. This percent was projected using single exponential smoothing and applied to projections of grade 12 enrollment to yield projections of high school graduates in public schools. Projections of grade 12 enrollment were developed based on the grade retention method discussed in section A1, Enrollment. This percent was assumed to remain constant at levels consistent with the most recent rates. This method assumes that past trends in factors affecting public high school graduates will continue over the projection period.



A3. Earned Degrees Conferred

Projections of associate, bachelor's, master's, doctor's, and first-professional degrees by sex were based on demographic models that relate degree awards to college-age populations and college enrollment by level enrolled and attendance status.

Associate Degrees

Associate degree projections by sex were based on undergraduate enrollment by attendance status in 2-year institutions. Results of the regression analysis used to project associate degrees by sex are shown in table A3.1.

Bachelor's Degrees

Bachelor's degree projections by sex were based on the 18- to 24-year-old population and undergraduate enrollment by attendance status in 4-year institutions. Results of the regression analysis used to project bachelor's degrees by sex are shown in table A3.2.

Master's Degrees

Master's degree projections for men were based on the 35- to 44-year-old population and graduate enrollment by attendance status in 4-year institutions. Results of the regression analysis used to project master's degrees for men are shown in table A3.3. Projections of master's degrees awarded to women were calculated as the average of the low and high alternatives. (The low alternative assumes that master's degrees awarded to women will decrease by 10,000 degrees each year through 2005–2006. The high alternative assumes that master's degrees awarded to women will increase by 10,000 degrees each year through 2005–2006.

Doctor's Degrees

Doctor's degree projections by sex were based on the 35- to 44-year-old population, graduate enrollment by

attendance status in 4-year institutions, and a time trend variable. Results of the regression analysis used to project doctor's degrees for women are shown in table A3.4.

First-Professional Degrees

First-professional degree projections by sex were based on first-professional enrollment by attendance status in 4-year institutions. Results of the regression analysis used to project first-professional degrees by sex are shown in table A3.5.

Methodological Tables

These tables describe equations used to calculate projections (tables A3.1 through A3.5), and basic assumptions underlying projections (table A3.6).

Projection Accuracy

An analysis of projection errors from similar models used in the past ten editions of Projections of Education Statistics indicates that mean absolute percentage errors (MAPEs) for bachelor's degree projections were 2.2 percent for 1 year out, 3.6 percent for 2 years out, and 7.2 percent for 5 years out. For the 1-year-out prediction, this means that one would expect the projection to be within 2.2 percent of the actual value, on the average. For firstprofessional degrees, the MAPEs were 2.6, 3.7, and 1.6 percent, respectively. For doctor's degrees, based on the past nine editions of Projections of Education Statistics, the MAPEs were 2.6, 4.4, and 8.8 percent, respectively. MAPEs for master's degrees, based on the past eight editions of Projections of Education Statistics, were 2.5, 5.2, and 11.4, respectively. MAPEs for associate degrees, based on the past six editions of Projections of Education Statistics, were 2.4 percent for 1 year out, 3.7 percent for 2 years out, and 6.7 percent for 3 years out.



Table A3.1.—Equations for associate degrees

| | | Equation | R ² | Durbin-Watson statistic ¹ | Estimation technique |
|-------|--------|--|----------------|---|----------------------|
| Men | ASSOCM | = 102,794 + 71.9UGFTM2 + 28.3UGPTM2 (1.5) (1.5) | 0.72 | 1.6 | AR12 |
| Women | ASSOCW | = 23,805.2 + 262.5UGFTW2 (13.9) | 0.98 | 1.6 | AR1 ³ |

R²= Coefficient of determination.

¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, *Econometric Methods*, New York: McGraw-Hill, 1972, pages 251–252.

²AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. The maximum likelihood procedure of the Regression Analysis of Time Series (RATS) software was used to estimate rho. In this equation, rho is equal to 0.62 with a t-statistic of (2.7). For a general discussion of the problem of autocorrelation, and method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, *The Theory and Practice of Econometrics*, New York: John Wiley and Sons, 1985, pages 315-318.

³AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. Specifically, the maximum likelihood procedure of the statistical program RATS was used to estimate rho. In this equation, rho is equal to 0.73 with a t-statistic of (4.4).

Where:

| ASSOCM ASSOCW | =Number of associate degrees awarded to men =Number of associate degrees awarded to women |
|------------------|--|
| UGFTM2 | =Full-time male undergraduate enrollment in 2-year institu- tions lagged 2 years |
| UGPTM2 | =Part-time male undergraduate enrollment in 2-year institutions lagged 2 years |
| UGFTW2 | =Full-time female undergraduate enrollment in 2-year institutions lagged 2 years |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1970–71 to 1992–93.



Table A3.2.—Equations for bachelor's degrees

| | | Equation | R ² | Durbin-Watson statistic ¹ | Estimation technique |
|-------|-------|--|----------------|---|----------------------|
| Men | ВАСНМ | = 248,841 - 12.4P1824M + 179.6UGFT4M (-3.3) (5.1) | 0.82 | 1.7 | AR12 |
| Women | BACHW | = 253,059 - 19.4P1824W + 239.4UGFT4W (-4.0) (16.8) | 0.99 | 1.4 | AR12 |

R² = Coefficient of determination.

Where:

| BACHM | =Number of bachelor's degrees awarded to men |
|--------|---|
| BACHW | =Number of bachelor's degrees awarded to women |
| P1824M | =Population of 18- to 24-year-old men |
| P1824W | =Population of 18- to 24-year-old women |
| UGFT4M | =Full-time male undergraduate enrollment in 4-year institu- tions lagged 2 years |
| UGFT4W | =Full-time female undergraduate enrollment in 4-year institutions lagged 3 years |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1970-71 to 1992-93.



¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252.

².AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. The maximum likelihood procedure of the Regression Analysis of Time Series (RATS) software was used to estimate rho. In this equation, rho is equal to 0.60 with a t-statistic of (3.1). For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, The Theory and Practice of Econometrics, New York: John Wiley and Sons, 1985, pages 315-318.

³ AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. The maximum likelihood procedure of the Regression Analysis of Time Series (RATS) software was used to estimate rho. In this equation, rho is equal to 0.72 with a t-statistic of (4.7).

| | <u>_</u> | Equation | R ² | Durbin-Watson statistic ¹ | Estimation technique |
|-----|----------|---|----------------|---|----------------------|
| Men | MASTM | = 18,889.3 - 4.0P3544M + 1,200.2GFTM (-4.6) (5.1) | 0.54 | 1.3 | OLS ² |
| | | - 383.7GPTM (-3.5) | | | |

R² = Coefficient of determination.

² OLS equals Ordinary Least Squares.

Where:

| MASTM | =Number of master's degrees awarded to men |
|--------|--|
| P3544M | =Population of 35- to 44-year-old men |
| GFTM | =Full-time male graduate enrollment lagged 2 years |
| GPTM | =Part-time male graduate enrollment lagged 2 years |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1970-71 to 1992-93.



¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252.

Table A3.4.—Equations for doctor's degrees

| | | Equation | R ² | Durbin-Watson statistic ¹ | Estimation technique |
|-------|------|--|----------------|---|-------------------------|
| Men | DOCM | = - 6,847.0 + 1.3P3544M + 84.4GFTM (6.5) (6.1) | 0.90 | 1.3 | OLS ² |
| | | - 952.2TIME (-12.1) | | | |
| Women | DOCW | = 4,681.2 + 464.4TIME (38.6) | 0.99 | 0.5 | OLS ² |

R²= Coefficient of determination.

Where:

| DOCM | =Number of doctor's degrees awarded to men |
|--------|--|
| DOCW | =Number of doctor's degrees awarded to women |
| P3544M | =Population of 35- to 44-year-old men |
| GFTM | =Full-time male graduate enrollment |
| TIME | =Time trend, 1970-71 equals 1 |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1970-71 to 1992-93.



¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252. ² OLS equals Ordinary Least Squares.

Table A3.5.—Equations for first-professional degrees

| | | Equation | R 2 | Durbin-Watson statistic 1 | Estimation technique |
|-------|-------|---|------|------------------------------|----------------------|
| Men | FPROM | = 5,711.8 + 260.7FPFTM (31.2) | 0.91 | 2.0 | AR12 |
| Women | FPROW | = -1,721.6 + 274.8FPFTW + 390.3FPPTW (15.6) (2.6) | 0.99 | 1.8 | OLS ³ |

 R^2 = Coefficient of determination.

¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, *Econometric Methods*, New York: McGraw-Hill, 1972, pages 251–252.

³ OLS equals Ordinary Least Squares.

Where:

| FPROM | =Number of first-profesional degrees awarded to men |
|--------------|---|
| FPROW | =Number of first-professional degrees awarded to women |
| FPFTM | =Full-time male first-professional enrollment lagged 2 years |
| FPFTW | =Full-time female first-professional enrollment lagged 1 year |
| FPPTW | =Part-time female first-professional enrollment lagged 2 |
| | vears |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equations is from 1970-71 to 1992-93



²AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. The maximum likelihood procedure of the Regression Analysis of Time Series (RATS) software was used to estimate rho. In this equation, rho is equal to 0.52 with a t-statistic of (2.5). For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, *The Theory and Practice of Econometrics*, New York: John Wiley and Sons, 1985, pages 315-318

Table A3.6.— Earned degrees conferred (assumptions)

| Variables | Assumptions | Alternatives | Table |
|---------------------------|--|--------------|-------|
| Associate degrees | | | |
| Men | The number of associate degrees awarded to men is a linear function of full-time and part-time undergraduate enrollment in 2-year institutions lagged 2 years. This relationship will continue through 2005–2006. | Middle | 27 |
| Women | The number of associate degrees awarded to women is a linear function of full-time undergraduate enrollment in 2-year institutions lagged 2 years. This relationship will continue through 2005–2006. | Middle | 27 |
| Bachelor's degrees | | | |
| Men | Middle | 28 | |
| Women | The number of bachelor's degrees awarded to women is a linear function of full-time undergraduate enrollment in 4-year institutions lagged 3 years and the 18- to 24-year-old population. This relationship will continue through 2005–2006. | Middle | 28 |
| Master's degrees | | - | |
| Men | Men The number of master's degrees awarded to men is a linear function of full- time and part-time graduate enrollment lagged 2 years and the 35- to 44-year- old population. This relationship will continue through 2005–2006. | | |
| Women | The number of master's degrees awarded to women equals the average of the low and high alternatives. | Middle | 29 |
| Doctor's degrees | | · | |
| Men | Men The number of doctor's degrees awarded to men is a linear function of full-time graduate enrollment, the 35- to 44-year-old population, and time. This relationship will continue through 2005–2006. | | 30 |
| Women | The number of doctor's degrees awarded to women is a linear function of time. This relationship will continue through 2005–2006. | Middle | 30 |
| irst-professional degrees | | | |
| Men | Men The number of first-professional degrees awarded to men is a linear function of full-time first-professional enrollment lagged 2 years. This relationship will continue through 2005–2006. | | |
| Women | The number of first-professional degrees awarded to women is a linear function of full-time first-professional enrollment lagged 1 year and part-time first-professional enrollment lagged 2 years. This relationship will continue through 2005–2006. | Middle | 31 |

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A4. Classroom Teachers

Public Classroom Teachers

Numbers of public elementary and secondary classroom teachers were projected using a model similar to that used in *Projections of Education Statistics to 2005*, only the coefficients were re-estimated. The number of public school teachers was projected separately for the elementary and secondary levels. The elementary teachers were modeled as a function of disposable income per capita, local education revenue receipts from state sources per capita, and elementary enrollment. Secondary teachers were modeled as a function of disposable income per capita, education revenue receipts from state sources per capita (lagged 3 years), and secondary enrollment. Both disposable income per capita and local education revenue receipts from state sources were in constant 1986–87 dollars.

The equations in this section should be viewed as forecasting rather than structural equations, as the limitations of time and available data precluded the building of a large-scale, structural teacher model. The particular equations shown were selected on the basis of their statistical properties, such as coefficients of determination (R²s), the t-statistics of the coefficients, the Durbin-Watson statistic, and residual plots.

The multiple regression technique will yield good forecasting results only if the relationships that existed among the variables in the past continue throughout the projection period.

The public elementary classroom teacher model is:

ELTCH = $b_0 + b_1$ PCI87 + b_2 SGRANT + b_3 ELENR

where:

ELTCH is the number of public elementary classroom teachers.

PCI87 is disposable income per capita in 1986–87 dollars;

SGRANT is the level of education revenue receipts from state sources per capita in 1986–87 dollars; and

ELENR is the number of students enrolled in public elementary schools.

Each variable affects the number of teachers in the expected way. As people receive more income, the state spends more money on education, and as enrollment increases, the number of elementary teachers hired increases.

The public secondary classroom teacher model is:



SCTCH = $b_0 + b_1$ PCI87 + b_2 SGRANT3 + b_3 SCENR

where:

SCTCH is the number of public secondary classroom teachers:

PCI87 is disposable income per capita in 1986–87 dollars:

SGRANT3 is the level of education revenue receipts from state sources per capita in 1986–87 dollars, lagged 3 years, and;

SCENR is the number of students enrolled in public secondary schools.

Each variable affects the number of teachers in the expected way. As people receive more income, the state spends more money on education, and as enrollment increases, the number of secondary teachers hired increases.

Table A4.1 summarizes the results for the elementary and secondary public teacher models.

Enrollment is by organizational level, not by grade level. Thus, secondary enrollment is not the same as grade 9–12 enrollment because some states count some grade 7 and 8 enrollment as secondary. The distribution of the number of teachers is by organizational level, not by grade span.

Private Classroom Teachers

Projections of private classroom teachers were derived in the following manner. For 1960 to 1992, the ratio of private school teachers to public school teachers was calculated by organizational level. These ratios were projected using single exponential smoothing, yielding a constant value over the projection period. This constant value was then applied to projections of public school teachers by organizational level to yield projections of private school teachers. This method assumes that the future pattern in the trend of private school teachers will be the same as that for public school teachers. The reader is cautioned that a number of factors could alter the assumption of constant ratios over the projection period.

The total number of public school teachers, enrollment by organizational level, and education revenue receipts from state sources used in these projections were from the Common Core of Data (CCD) survey conducted by NCES. The proportion of teachers by organizational level was taken from the National Education Association and then applied to the total number of teachers from CCD to produce the number of teachers by organizational level.

Disposable income was obtained from DRI/McGraw-Hill and population data were from the Bureau of the Census.

Projection Accuracy

An analysis of projection errors from the past 12 editions of *Projections of Education Statistics* indicated that the

mean absolute percentage errors (MAPEs) for projections of classroom teachers in public elementary and secondary schools were 0.9 percent for 1 year out, 1.3 percent for 2 years out, 2.8 percent for 5 years out, and 3.4 percent for 10 years out. For the 2-year-ahead prediction, this means that one would expect the projection to be within 1.3 percent of the actual value, on the average.



Table A4.1.—Equations for public elementary and secondary classroom teachers

| | | Equation | R 2 | Durbin-Watson statistic ¹ | Estimation technique |
|------------|-------|---|------|---|-------------------------|
| Elementary | ELTCH | = - 250.2 + 0.052PCI87 + 0.7SGRANT (4.3) (1.6) | 0.99 | 1.5 | AR12 |
| | | + 0.03ELENR (4.7) | | | |
| Secondary | SCTCH | = - 211.9 + 0.04PC187 + 0.4SGRANT3 (6.9) (2.9) | 0.97 | 1.5 | OLS ³ |
| | | + 0.04SCENR (18.8) | | | |

R²= Coefficient of determination.

Where:

| ELTCH | =Number of public elementary classroom teachers |
|---------|---|
| SCTCH | =Number of public secondary classroom teachers |
| PCI87 | =Disposable income per capita in 1986–87 dollars |
| SGRANT | =Education revenue receipts from state sources per capita |
| SGRANT3 | =Education revenue receipts from state sources per capita |
| | lagged 3 years |
| ELENR | =Number of students enrolled in public elementary schools |
| SCENR | =Number of students enrolled in public secondary schools |

NOTE: Numbers in parentheses are t-statistics. The time period of observations used in the equation for elementary teachers is from 1960 to 1992. The time period used in the equation for secondary teachers is from 1965 to 1992.



¹ For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252.

² AR1 equals an estimation procedure for correcting the problem of first-order autocorrelation. In this equation, rho is equal to 0.83 with a t-statistic of (6.4). For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, The Theory and Practice of Econometrics, New York: John Wiley and Sons, 1985, pages 315-318.

³ OLS equals Ordinary Least Squares.

A5. Expenditures of Public Elementary and Secondary Schools

Econometric techniques were used to produce the projections for current expenditures and average teacher salaries. The equations in this chapter should be viewed as forecasting equations rather than structural equations. The limitations of time and available data precluded the building of large-scale, structural, models. The particular equations shown were selected on the basis of their statistical properties, such as coefficients of determination (R2's), the t-statistics of the variables, the Durbin-Watson statistic, and residual plots. These econometric models will yield good forecasting results only if the relationships that existed among the variables in the past continue throughout the projection period.

The Elementary and Secondary School Current Expenditure Model

There has been a large body of work, both theoretical and empirical, on the demand for local public services such as education *. The elementary and secondary school current expenditure model is based on this work.

The model that is the basis for the elementary and secondary school current expenditure model has been called the median voter model. In brief, the theory states that spending for each public good in the community (in this case, education), reflects the preferences of the "median voter" in the community. This individual is identified as the voter in the community with the median income and median property value. Hence, the amount of spending in the community reflects the price of education facing the voter with the median income, as well as his income and tastes. There are competing models in which the level of spending reflects the choices of others in the community, such as the "bureaucrats." The median voter model was chosen as the basis of the elementary and secondary school current expenditure model as it has been the one most thoroughly studied.

There have been many empirical studies of the demand for education expenditures using the median voter model. In most instances, researchers have used cross-sectional data. The elementary and secondary school current expenditure model was built on the knowledge gained from these cross-sectional studies and was adapted from them for use in a time series study.

In a median voter model, the demand for education expenditures is typically linked to four different types of variables: 1) measures of the income on the median voter; 2) measures of intergovernmental aid for education going indirectly to the median voter; 3) measures of the price to the median voter of providing one more dollar of education expenditures per pupil; and 4) any other variables that may affect one's tastes for education. The elementary and secondary school current expenditure model contains variables reflecting the first three types of variables. The model is:

$$ln(CUREXP) = b_0 + b_1 ln(PCI) + b_2 ln(SGRNT) + b_3 ln(ADAPOP)$$

where:

In indicates the natural log;

CUREXP equals current expenditures of public elementary and secondary schools per pupil in average daily attendance in constant 1982–84 dollars;

PCI equals disposable income per capita in constant 1987 dollars;

SGRNT equals local governments' education revenue receipts from state sources, per capita, in constant 1982–84 dollars; and

ADAPOP equals the ratio of average daily attendance to the population.

The model was estimated using the AR1 model for correcting for autocorrelation. This was done because the test statistics were significantly better than those from the ordinary least squares (OLS) estimation, and the Durbin-Watson statistic was in the inconclusive region when the model was estimated using OLS. This is the fourth edition of *Projections of Education Statistics* in which this method of estimation, rather than OLS, was used. Ordinary least squares was used in the previous four editions of *Projections of Education Statistics*. The sample period was from 1959–60 to 1992–93.

There are potential problems with using a model for local government education expenditures for the nation as a whole. Two such problems concern the variable SGRNT. First, the amount of money which local governments receive for education from state government varies substantially by state. Second, the formulas used to apportion state moneys for education among local governments vary by state.

Beginning in 1988-89, there was a major change in the survey form used to collect data on current expenditures. This new survey form produces a more complete measure of current expenditures; therefore, the values for current



^{*}For a review and discussion of this literature, see Inman, R. P. (1979), "The fiscal performance of local governments: an interpretive review," in *Current Issues in Urban Economics*, edited by P. Mieszkowski and M. Straszheim, Johns Hopkins Press, Baltimore, Maryland.

expenditures are not completely comparable to the previously collected numbers. In a crosswalk study, data for a majority of states were also collected for 1986–87 and 1987–88 that were comparable to data from the new survey form. A comparison of these data with those from the old survey form suggests that the use of the new survey form may have increased the national figure for current expenditures by approximately 1.4 percent over what it would have been if the survey form had not been changed. When the model was estimated, all values for current expenditures before 1988–89 were increased by 1.4 percent.

The results for the model are shown in table A5.1. Each variable affects current expenditures in the direction that would be expected. As people receive more income, either directly (PCI) or from the state government (SGRNT), the level of spending increases. As the number of pupils increases relative to the population (that is, as ADAPOP increases), the level of spending per pupil falls.

From the cross-sectional studies of the demand for education expenditures, we have an estimate of how sensitive current expenditures are to changes in PCI and ADAPOP. We can compare the results from this model with those from the cross-sectional studies. For this model, an increase in PCI of 1 percent, with SGRNT and ADAPOP held constant, would result in an increase of current expenditures per pupil in average daily attendance of approximately 0.61 percent. With PCI and SGRNT held constant, an increase of 1 percent in ADAPOP would result in a decrease in current expenditures per pupil in average daily attendance of approximately 0.34 percent. Both numbers are well within the range of what has been found in other studies.

The results from this model are not completely comparable with those from some of the previous editions of *Projections of Education Statistics*. First, as with the previous edition, the population number for each school year is the Bureau of the Census's July 1 population number for the upcoming school year. In earlier editions, each school year's population number was the average of the DRI/McGraw-Hill's estimated population numbers of each quarter in that school year. Second, there was a change in the definition of the disposable income affecting the projections in *Projections of Education Statistics to 2004*, in *Projections of Education Statistics to 2005*, and in this edition.

Projections for total current expenditures were made by multiplying the projections for current expenditures per pupil in average daily attendance by projections for average daily attendance. The projections for total current expenditures were divided by projections for fall enrollment to produce projections of current expenditures per pupil in fall enrollment. Projections were developed in 1982–84 dollars and then placed in 1992–93 dollars using the Consumer Price Index. Current-dollar projections were produced by multiplying the constant-dollar projections by projections for the Consumer Price Index.

Three alternative sets of projections for current expenditures are presented: the middle alternative projections; the alternative projections; and the high alternative

projections. The alternative sets of projections differ because of varying assumptions about the growth paths for disposable income and revenue receipts from state sources.

The alternative sets of projections for the economic variables including disposable income were developed using variations of three economic scenarios developed by DRI for use on its U.S. Quarterly Model. The U.S. Quarterly model is an econometric model of the U.S. economy developed by DRI for the personal computer which projects more than 1,200 economic concepts. Periodically, DRI supplies alternative economic scenarios of the economy, including long-term scenarios. Users have the option of either producing projections directly from the scenarios supplied by DRI or first altering some of the underlying assumptions of the scenarios and then producing the projections. The August 1995 series of longterm scenarios was used as bases for the three sets of alternative economic projections used here, although there were some changes in the underlying assumptions.

DRI's trend scenario was used as a base for the middle alternative projections of the economic variables. DRI's trend scenario depicts a mean of possible paths that the economy could take over the forecast period, barring major shocks. The economy, in this scenario, evolves smoothly, if unspectacularly. The only change from DRI's trend scenario was that the most recent middle set of population projections as developed by the Bureau of the Census was substituted for DRI's population projections.

DRI's pessimistic scenario was used as a base for the low alternative projections. As with the middle set of projections, the Bureau of the Census' recent middle set of population projections was substituted for DRI's population projections. For the low alternative projections, some changes were made in some of DRI's assumptions concerning personal income that resulted in lower projections for disposable income.

Similarly, DRI's optimistic scenario was used as a base for the high alternative projections. The Bureau of the Census' recent middle set of population projection was substituted for DRI's population projections and some changes were made in some of DRI's assumptions concerning personal income that resulted in higher projections for disposable income.

Hence, using DRI's U.S. Quarterly Model and their August 1995 long-term scenarios, three sets of projections, the middle alternative projections, the low alternative projections, and the high alternative projections, were developed for the economic variables.

In the middle alternative projections, disposable income per capita rises each year from 1995–96 to 2005–2006 at rates between 1.1 percent and 1.7 percent. In the low alternative projections, disposable income per capita ranging between 0.1 percent and 1.6 percent and in the high alternative projections disposable income per capita rises at rates between 1.4 percent and 2.3 percent.

The greatest differences among the three alternative projections for the percent changes for disposable income per capita occur in the first years of the projection period.

This is because the three alternative sets of projections are based on quite different assumptions for the short term path of the economy. With the middle alternative projections, the economy is in a moderate recovery; with the low alternative projections, the economy is growing slowly; and with the high alternative projections, the economy is booming. For the later years of the projection period, the economy is assumed to be growing at steady rates for each alternative set of projections. Hence, the percent changes for disposable income per capita (and many other economic variables) are similar for the three alternative sets of projections for the later years of the projection period.

The alternative projections for revenue receipts from state sources were produced using the following model:

In(SGRNT) $= b_0 + b_1 \ln(PERTAX1) + b_2 \ln(BUSTAX1)$ + b₃ln(ADAPOP) + b₄ln(RCPIANN/RCPIANN1)

where:

In indicates the natural log;

SGRNT equals local governments' education revenue receipts from state sources, per capita, in constant 1982-84 dollars:

PERTAX1 equals personal taxes and nontax receipts to state and local governments, per capita, in constant 1982-84 dollars lagged one period;

BUSTAX1 equals indirect business taxes and tax accruals, excluding property taxes, to state and local governments, per capita, in constant 1982-84 dollars lagged one period;

ADAPOP equals the ratio of average daily attendance to the population;

RCPIANN equals the the inflation rate measured by the Consumer Price Index; and

RCPIANN1 equals the the inflation rate measured by the Consumer Price Index lagged 1 period.

This equation was estimated using the AR1 model for correcting for autocorrelation. The sample period was from 1960-61 to 1992-93. The results for the model are shown in table A5.1.

The values of the coefficients in this model follow expectations. As state governments receive more revenue (higher PERTAX1 and BUSTAX1), they have more money to send to local governments for education. As the enrollment increases relative to the population (higher ADAPOP), so does the amount of aid going to education. Finally, years with rapidly increasing inflation (higher RCPIANN/RCPIANN1), the real dollar values of revenue receipts from state governments to local governments would other things being equal.

This is the first edition of the Projections of Education Statistics that this model has been used to projection projections of SGRNT. In the previous four editions, a similar model was used. The greatest difference between the model used here and those used in earlier editions is that in this model, the variables were in log form. There were several reasons for the change to the log form including the results of a comparision of ex-post mean absolute percentage errors for both functional forms produced by excluding from one to five years from the end of each sample.

The three alternative sets of projections for SGRNT were produced using this model. Each is based on a different set of projections for personal taxes, business taxes, and the rate of change in the inflation rate. The middle set of projections was produced using the values for these variables from the middle set of alternative projections. The low set of projections was produced using the values from the low set of alternative projections and the high set of projections was produced using the values from the high set of alternative projections. In the middle set of projections, personal taxes and nontax receipts increase at rates between 0.9 percent and 2.5 percent and indirect business taxes and tax accruals increase at rates between 0.8 percent and 2.4 percent. In the low set of projections, personal taxes and nontax receipts increase at rates between 1.1 percent and 1.9 percent, and indirect business taxes and tax accruals increase at rates between -0.4 percent and 1.8 percent. In the high set of projections, personal taxes and nontax receipts increase at rates between 0.9 percent and 3.5 percent, and indirect business taxes and tax accruals increase at rates between 1.0 percent and 3.7 percent.

In the middle set of projections, revenue receipts from state sources increase at rates between 0.8 percent and 2.8 percent for the period from 1995-96 to 2005-2006. In the low set of projections, they increase at rates between 0.2 percent and 2.2 percent. In the high set of projections, they increase at rates between 1.1 percent and 3.8 percent.

The Elementary and Secondary **Teacher Salary Model**

Most studies conducted on teacher salaries, like those on current expenditures, have used cross-sectional data. Unlike current expenditures models, however, the models for teacher salaries from these existing cross-sectional studies cannot easily be reformulated for use with timeseries data. One problem is that we do not have sufficient information concerning the supply of qualified teachers who are not presently teaching. Hence, the elementary and secondary salary model contains terms that measure the demand for teachers in the economy.

The elementary and secondary teacher salary model is:

ln(SALRY) = $b_0 + b_1 \ln(CUREXP) + b_2 \ln(ADAPOP)$ $+ b_3 ln(ADA1/ADA2)$

where:

In indicates the natural log;

SALRY equals the average annual salary of teachers in public elementary and secondary schools in constant 1982–84 dollars;

CUREXP equals current expenditures of public elementary and secondary schools per pupil in average daily attendance in constant 1982–84 dollars;

ADAPOP equals the ratio of average daily attendance to the population;

ADA1 equals the average daily attendance lagged 1 period; and

ADA2 equals the average daily attendance lagged 2 periods.

The model was estimated using the period from 1959–60 to 1992–93 as a sample period. The AR1 model for correcting for autocorrelation was used as the Durbin-Watson statistic was in the inconclusive region when the model was estimated using OLS.

While there are values for teacher salaries through 1994-95, the model was estimated using the period from 1959-60 to 1992-93 as there are values for current expenditures only through 1992-93. The actual values for teacher salaries for 1993-94 and 1994-95, not those estimated using the model, appear in table 36. The projected values for teacher salaries for the projections period from 1995-96 to 2005-2006 also are not the numbers which appear in table 36. Rather, three new sets of projections for teacher salaries were calculated using the per cent changes from the original projections. First, for each set of alternative projections, the projected percent change from 1994-95 to 1995-96 was applied to the actual number for 1994-95 to find a new projection for 1995-96. The projected percent changes were then used to produce three new series of teacher salary projections.

Due to the effects caused by the change shown in survey forms, the values for current expenditures for 1959–60 to 1987–88 were increased by 1.4 percent.

The results for this model are also shown in table A5.1. There is no literature for comparing the sizes of the coefficients. However, the direction of the impact each variable has on salaries is as expected: As the level of spending per pupil increases (higher CUREXP), more teachers can be hired, so demand for teachers increases and salaries may increase; as the number of students increases (higher ADAPOP and ADA1/ADA2), demand for teachers increases, so salaries increase.

This is the first edition of the *Projections of Education Statistics* that this model has been used to projection projections of teacher salaries. In the previous seven editions, similar models were used. The greatest difference between model used here and those used in earlier editions

is that in the model presented here, the variables were in log form.

As with current expenditures, three different scenarios are presented for teacher salaries. The same projections for ADAPOP and ADA are used for each alternative projection; the sole difference between the projections is in the projection for current expenditures. The middle alternative projection for current expenditures. The low alternative projection for salaries uses the low alternative projection for current expenditures. The high alternative projection for salaries uses the high alternative projection for current expenditures.

Current expenditures, average teacher salaries, and the number of teachers are interrelated. Hence, an exercise was conducted to see whether the projections of these three time series were consistent.

The number of teachers was multiplied by the average salary and then divided by current expenditures for every school year from 1980–81 until 2005–2006 (using the middle alternative projection for teachers, salaries, and current expenditures). The resulting value shows the portion of current expenditures that is spent on teacher salaries. The portion of current expenditures that goes toward teacher salaries has been in a slow downward trend, with the teacher salary share falling from 40.9 percent in 1980–81 to 38.9 percent in 1992–93. With the projected values, the portion of current expenditures that go toward teacher salaries continues to fall slowly, falling to 35.4 percent in 2005–2006.

The results of this exercise indicate that the projections of these three time series are consistent.

Projection Accuracy

This is the eighth consecutive year in which *Projections* of Education Statistics has contained projections of current expenditures and teacher salaries. The actual values of current expenditures and teacher salaries can be compared with the projected values in the previous editions to examine the accuracy of the models.

The projections from the various editions of *Projections* of *Education Statistics* were placed in 1981–82 dollars using the Consumer Price Indices that appeared in each edition.

The same set of the independent variables has been used in the production of the current expenditure projections presented in the last eight editions of the *Projections of Education Statistics* including this one. There have been some differences in the construction of the variables however. First, with the *Projections of Education Statistics to 1997-98*, calendar year data were used for disposable income, the population, and the Consumer Price Index. With the later editions, school year data was used. Second, beginning with *Projections of Education Statistics to 2004* there was a change in the definition of disposable income. Third, there has been two changes with the population variable. Beginning with the last edition, the Census's July 1 number for the population has been used. In the

earlier editions, an average of the the quarterly values was used. Also beginning with the last edition, the U.S. Bureau of the Census's population projections have been used. In the earlier editions, the population projections came from a economic consulting firm, either DRI-McGraw/Hill or the WEFA Group.

There has also been a change in the estimation procedure. In Projections of Education Statistics to 2003, Projections of Education Statistics to 2004, Projections of Education Statistics to 2005, and in the present edition, the AR1 model for correcting for autocorrelation was used to estimate the model. In the earlier four editions, ordinary least squares was used to estimate the model.

Mean absolute percentage errors (MAPEs) for current expenditures and current expenditures per pupil can be found on table A5.2.

For some editions of the Projections of Education Statistics, the first projection to be listed was not actually a 1-year-out projection. For example, in Projections of Education Statistics to 2002, the first projection to appear was for 1990-91. This projection was calculated using a sample period ending in 1988-89 and so was considered to be a 2-year-out projection. The value that appeared for 1989-1990 was from NCES Early Estimates. Only those projections which appeared in an edition of Projections of Education Statistics were used in this evaluation.

Some of the differences between the actual values and the projected values for current expenditures and current expenditures per pupil are due to the change in the survey form for current expenditures that took place in 1988-89. The results of the crosswalk study suggest that values for current expenditures as presently collected are approximately 1.4 percent higher than they would have been if no change had been made. If the projections for 1988-89, 1989-90, and 1990-91 which appeared in *Projections* of Education Statistics to 1997-98, Projections of Education Statistics to 2000, Projections of Education Statistics to 2001: An Update, are increased by 1.4 percent, the MAPEs decrease. MAPEs for current expenditures and current expenditures per pupil after this adjustment has been made can also be found on table A5.2.

Projections for teacher salaries also appeared in the seven most recent editions of Projections of Education Statistics.

There was one major difference with the model used to teacher salary projections in this edition and the models used all the earlier editions- all the variables were placed in log form in this edition. With this change in functional form, there was also a change in the way the change in enrollment was measured. In this edition, the change enrollment was measured by taking the ratio of the average daily attendance lagged one period to the average daily attendance lagged two periods. In the previous three editions of Projections of Education Statistics, the change in enrollment was measured by the change in average daily attendance lagged one period. In Projections of Education Statistics to 1997-98, Projections of Education Cratistics to 2000, and Projections of Education Statistics ERIC 2001, both the change in average daily attendance lagged one period, and the change in average daily attendance lagged two periods were included in the model.

There was a major difference between the model used to produce the teacher salary projections in Projections of Education Statistics to 1997-98 and those used in the later editions including this one: variables in the model were calculated using calendar year data for the population and the Consumer Price Index rather than school year

The MAPEs for projections of teacher salaries can also be found on table A5.2

Sources of Past and Projected Data

Numbers from several different sources were used to produce these projections. In some instances, the time series used were made by either combining numbers from various sources or manipulating the available numbers. The sources and the methods of manipulation are described here.

The time series used for current expenditures was compiled from several different sources. For the school years ending in even numbers from 1959-60 to 1975-76, the numbers for current expenditures were taken from various issues of Statistics of State School Systems, published by NCES. The numbers for the school years ending in odd numbers during the 1960s were taken from various issues of the National Education Association's Estimates of School Statistics. For the school years ending in odd numbers during the 1970s, up to and including 1976-77, the numbers were taken from various issues of Revenues and Expenditures for Public Elementary and Secondary Education, published by NCES. For the school years from 1977-78 until 1992–93, the numbers were taken from the NCES Common Core of Data survey and unpublished data.

For 1974-75 and 1976-77, expenditures for summer schools were subtracted from the published figures for current expenditures. The value for 1972-73 was the sum of current expenditures at the local level, expenditures for administration by state boards of education and state departments of education, and expenditures administration by intermediate administrative units.

Note that although the data from the different sources are similar, they are not entirely consistent. Also, the NCES numbers beginning with 1980-81 are not entirely consistent with the earlier NCES numbers, due to differing treatments of items such as expenditures for administration by state governments and expenditures for community services.

An alternative source for current expenditures would have been the Bureau of the Census' F-33 which offers statistics to the district level. This level of detail was not needed however.

For most years, the sources for the past values of average daily attendance were identical to the sources for current expenditures. For 1978-79, the number was taken from Revenues and Expenditures for Public Elementary and Secondary Education.

Projections for average daily attendance for the period from 1993-94 to 2005-2006 were made by multiplying the projections for enrollment by the average value of the ratios of average daily attendance to the enrollment from 1983–84 to 1992–93; this average value was approximately 0.93.

The values for fall enrollment from 1959–60 to 1977–78 were taken from issues of the NCES publication *Statistics of Public Elementary and Secondary Schools*. The 1978–79 value was taken from the *NCES Bulletin* of October 23, 1979, "Selected Public and Private Elementary and Secondary Education Statistics." The values from 1979–80 to 1993–94 were taken from the NCES Common Core of Data survey. The projections for fall enrollment are those presented in Chapter 1.

For 1959–60 to 1992–93, the sources for revenue receipts from state sources were the two NCES publications Statistics of State School Systems and Revenues and Expenditures for Public Elementary and Secondary Education and the NCES Common Core of Data survey. The methods for producing the alternative projections for revenue receipts from state sources are outlined above.

The numbers for average teacher salaries were taken from various issues of the National Education Association's *Estimates of School Statistics*.

The projected values for disposable income, personal taxes and nontax receipts to state and local governments, and indirect business taxes and tax accruals to state and

local governments, were developed using DRI/McGraw-Hill's U.S. Quarterly Model. Projected values of the Bureau of Labor Statistic's Consumer Price Index for all urban consumers, which was used for adjusting current expenditures, teacher salaries, revenue receipts from state sources, and the state revenue variables, were also developed using the U.S. Quarterly Model. DRI/McGraw-Hill supplied the historic values for these variables.

Both the historic and projected values for the population were supplied by the U.S. Bureau of the Census.

The values of all the variables from DRI were placed in school-year terms. The school-year numbers were calculated by taking the average of the last two quarters of 1 year and the first two quarters of the next year.

The Elementary and Secondary School Price Index was considered as a replacement for the Consumer Price Index for placing current expenditures and teacher salaries in constant dollars. As projections of the price index are required for placing the forecasts into current dollars, and as there are no projections of the Elementary and Secondary School Price Index, the Consumer Price Index was used. There are other price indexes, such as the implicit price deflator for state and local government purchases, that could have been used instead of the Consumer Price Index. These alternatives would have produced somewhat different projections.



Table A5.1.—Equations for current expenditures per pupil in average daily attendance, average annual salaries of teachers, and education revenue receipts from state sources

| Dependent variable | | Equation | Ř ² | Durbin-Watson statistic | Estimation technique * | Rho | |
|--|------------|--|----------------|----------------------------|------------------------|-----------------|--|
| Current expenditures per pupil | In(CUREXP) | = - 1.704 + 0.612ln(PCI) + 0.605ln(SGRNT) (-1.30) (2.59) (4.60) - 0.338ln(ADAPOP) (-2.63) | 0.997 | 1.913 | ARI | 0.416 (2.45) | |
| Average annual salaries | In(SALRY) | = 7.51 + 0.46ln(CUREXP) + 0.67ln(ADAPOP) (32.6) (12.07) (5.65) + 1.27ln(ADA1/ADA2) (3.59) | 0.981 | 1.615 | ARI | 0.818 (6.93) | |
| Education revenue receipts from state sources per capita | In(SGRNT) | = - 0.26 + 0.33ln(PERTAX1) + 0.63ln(BUSTAX1) (-0.27) (1.91) (2.22) + 0.34ln(ADAPOP) (3.41) - 0.03ln(RCPIANN/RCPIANN1) (-2.17) | 0.992 | 1.978 | AR1 | .251 (1.31) | |

^{*}OLS = Ordinary Least Squares. AR1 is an estimation procedure for correcting the problem of first-order autocorrelation.

NOTES: The sample size for revenue receipts from state sources is 33. The sample size for current expenditures and teacher salaries is 34. Numbers in parentheses are t-statistics. \bar{R}^2 = Coefficient of

determination, adjusted for degrees of freedom. For an explanation of the Durbin-Watson statistic, see J. Johnston, *Econometric Methods*, New York: McGraw-Hill, 1972, pages 251–252. Rho is the first order autocorrelation coefficient estimated when AR1 is used. (This table was prepared October 1995.)



Table A5.2.—Mean absolute percentage errors by lead time for current expenditure in public elementary and secondary schools, current expenditures per pupil in average daily attendance (ADA) in public elementary and secondary schools, and average annual teacher salaries of classroom teachers in public elementary and secondary schools, all in constant dollars

| | | Mean absolute percentage errors | | | | | |
|-----------|----------------------|---------------------------------|--------------|----------------------------------|-------------------------|--|--|
| Lead Time | Current Expenditures | | Current Expe | nditures - Adjusted ¹ | | | |
| | Total | Per pupil in ADA | Total | Per pupil in ADA | Average annual salaries | | |
| One | 1.3% | 1.2% | 0.8% | 0.6% | 1.3% | | |
| Two | 2.4% | 1.7% | 1.6% | 1.1% | 1.6% | | |
| Three | 1.9% | 1.6% | 1.5% | 1.4% | 2.3% | | |
| Four | 1.4% | 1.7% | 1.1% | 2.1% | 4.8% | | |
| Five | 0.5% | 1.1% | 1.2% | 2.5% | 7.7% | | |
| Six | 2.0% | 2.4% | 3.4% | 3.9% | 9.6% | | |
| Seven | _ | _ | | _ | 11.1% | | |
| Eight | _ | _ | | | 14.1% | | |

¹ Values for current expenditures and current fund expenditures per pupil in average daily attendance from *Projections of Education Statistics to 1997–98*, *Projections of Education Statistics to 2000*, and *Projections of Education Statistics to 2001: An Update* were increased by 1.4 percent

in compensate for the change in the survey for for current expenditures which occurred in 1988-89.

SOURCES: Various issues of *Projections of Education Statistics*. (This table was prepared October 1995.)



A6. Expenditures of Institutions of Higher Education

A total of six higher education expenditure models was estimated: one current-fund expenditure model and one educational and general expenditure model for each of the three types of higher education institutions—public 4-year; public 2-year; and private 4-year. In each case, econometric techniques were used. Due to the lack of a consistent database for private 2-year schools, the last actual value, for 1992–93, was used.

The higher education econometric models were selected on the basis of their statistical properties, such as the coefficients of determination (R²), the t-statistics of the variables, the Durbin-Watson statistic, and residual plots. These econometric models will yield good forecasting results only if the relationships that existed among the variables in the past continue throughout the projection period.

Higher Education Institutions Expenditure Models

Similar econometric models were developed for three types of institutions. While there has been significantly less work by economists studying the factors influencing higher education finance data than those influencing elementary and secondary finance data, there have been some valuable studies. This body of work was used in building these models.

In Chapter 7, some of the factors that are historically associated with the level of expenditures were discussed. These were: (1) the state of the economy; (2) the inflation rate; and (3) enrollments. Each of the models presented here contains variables measuring at least two of these three factors. Either disposable income per capita or revenues of state and local governments per capita was used to measure the state of the economy. Two measures of the inflation rate were considered: the rate of change in the inflation rate; or a dummy for years with inflation rates greater than 8 percent. In each equation, an enrollment variable was included.

For each dependent variable, a number of alternative specifications were examined. In each case, the choice of the final specification was made after considering such factors as the coefficients of determination, the t-statistics of the variables, residual plots, and ex-post mean absolute percent errors. The final specification of each model has the dependent variables and some of the independent variables as first differences.

The Public 4-Year Institutions Expenditure Models

The public 4-year institutions current-fund expenditure model is:

DPUTCUR4 = $b_0 + b_1DSTREV1 + b_2DPUFTE4 + b_3DUMMY$

where:

DPUTCUR4 is the change in current-fund expenditures per student in full-time-equivalent (FTE) enrollment in public 4-year institutions in constant 1982–84 dollars;

DSTREV1 is the change in the sum of personal tax and nontax receipts to state and local governments and indirect business taxes and tax accruals, excluding property taxes, to state and local governments, per capita, in constant 1982–84 dollars lagged one year;

DPUFTE4 is the change in FTE enrollment in public 4-year institutions in thousands of students; and

DUMMY is a dummy variable equaling 1 when the inflation rate is greater than 8 percent and 0 otherwise.

This model and the other econometric models were estimated using a sample period from 1968–69 to 1992–93. Ordinary least squares was used to estimate all the public institution models.

The results for this model are on table A6.1. Each variable affects current-fund expenditures in a logical fashion. The more revenues that state and local governments receive, the more expenditures they can make for public institutions of higher education. In a year with high inflation (DUMMY equals 1), current-fund expenditures in constant dollars are lower than they would have been otherwise. The more students in public 4-year institutions, the less money to be spent per student.

Three projections were produced: the middle alternative set of projections, the low alternative set of projections, and the high alternative set of projections. Each set of projections was based on a different set of assumptions for the revenues of state and local governments per capita. The projections for revenues of state and local governments per capita and the other economic variables used to produced the higher education expenditure projections were produced using the U.S. Quarterly Model of DRI/McGraw–Hill's (DRI). The development of these alternative sets of projections is discussed in Appendix A5.

In the middle set of alternative projections, the revenues of state and local governments per capita increase at rates



between 1.0 percent and 2.5 percent. In the low set of alternative projections, the revenues of state and local governments per capita increase at rates between 0.2 percent and 1.6 percent. In the high set of alternative projections, the revenues of state and local governments per capita increase at rates between 1.4 percent and 3.5 percent.

Projections for total current-fund expenditures were made by multiplying the projections for current-fund expenditures per student in FTE enrollment by projections for FTE enrollment. Projections were developed in 1982–84 dollars and then placed in 1993–94 dollars using projections for the Consumer Price Index. Current dollar projections were produced by multiplying the constant dollar projections by projections for the Consumer Price Index. All the higher education total expenditure projections, all expenditure projections in 1993–94 dollars, and all the current dollar projections were calculated in similar fashion.

A model for educational and general expenditures of public 4-year institutions was developed using the same variables as the current-fund expenditure model. The model is:

DPUED4 =
$$b_0 + b_1DSTREV1 + b_2DPUFTE4 + b_3DUMMY$$

where:

DPUED4 is the change in educational and general expenditures per student in FTE enrollment in public 4-year institutions in constant 1982–84 dollars.

As with current-fund expenditures, each variable affects expenditures in the expected way.

The Public 2-Year Institutions Expenditure Models

The public 2-year institutions current-fund expenditure model has a form similar to the public 4-year institutions current-fund expenditure model except that the public 2-year institutions model does not contain any inflation variables. The model is:

DPUTCUR2 =
$$b_0 + b_1DSTREV1 + b_2DPUFTE2$$

where:

DPUTCUR2 is the change in current-fund expenditures per student in FTE enrollment in public 2-year institutions in constant 1982–84 dollars; and

DPUFTE2 is the change in FTE enrollment in public 2-year institutions in thousands of students.

The results for this model are on table A6.1. Again, the DSTREV1 has the expected positive effect on expenditures and the FTE enrollment variable has the pected negative impact.

The public 2-year institutions educational and general expenditure model is virtually identical to its current-fund expenditures counterpart. It is:

DPUED2 =
$$b_0 + b_1DSTREV1 + b_2DPUFTE2$$

where:

DPUED2 is the change in educational and general expenditures per student in FTE enrollment in public 2-year institutions in constant 1982–84 dollars.

The Private 4-Year Institutions Expenditure Models

The private 4-year institutions current-fund expenditure model is:

DPRTCUR4 =
$$b_0 + b_1$$
DPCI + b_2 DPRFTE4 + b_3 ININCR

where:

DPRTCUR4 is the change in current-fund expenditures per student in FTE enrollment in private 4-year institutions in constant 1982–84 dollars;

DPCI is the change in disposable income per capita in 1987 dollars;

DPRFTE4 is the change in FTE enrollment in private 4-year institutions to the population in thousands; and

ININCR is the rate of change in the inflation rate measured by the Consumer Price Index.

The model was estimated using a method for correcting for autocorrelation.

The three alternative sets of projections for currentfund expenditures were produced using varying assumptions about the growth paths for disposable income and the rate of change in the inflation rate measured by the Consumer Price Index. These disposable income and inflation rate projections were also developed using the U.S. Quarterly Model of DRI/McGraw-Hill.

In the middle set of projections, disposable income per capita rises each year from 1995–96 to 2005–2006 at rates between 1.1 percent and 1.7 percent. In the low set of projections, disposable income per capita increases at rates between 0.1 percent and 1.6 percent. In the high set of projections, disposable income per capita increases at rates between 1.4 percent and 2.3 percent.

In the middle set of projections, the inflation rate varies between 3.0 percent and 4.1 percent. In low set of projections, it varies between 3.5 percent and 5.1 percent, and in the high set of projections, it varies between 2.5 percent and 4.1 percent for the high alternative.

The private 4-year institutions educational and general expenditure model is:

DPRIED4 $= b_0 + b_1 DPCI + b_2 DPRFTE4$ + b₃ININCR

where:

DPRIED4 is the change in educational and general expenditures per student in FTE enrollment in private 4year institutions in constant 1982-84 dollars.

The Private 2-Year Institutions Expenditure Models

Unlike the other higher education variables, econometric methods were not used for either private 2-year currentfund expenditures or private 2-year educational and general expenditures. This was due to a change in the sample universe for private 2-year institutions. The period for which the private 2-year universe is relatively consistent, from 1982-83 to 1992-93, has only eleven observations. This is too short a period for econometric techniques, so another means of projecting private 2-year institution expenditures was required. Hence, both current-fund expenditures per student and educational and general expenditures per student were assumed to stay constant at the last year for which there is data, 1992-93.

Projection Accuracy

This is the fifth time in the past ten years that *Projections* of Education Statistics has contained projections of higher education expenditure data. The other four editions were the Projections of Education Statistics to 2005, Projections of Education Statistics to 2004, Projections of Education Statistics to 2003 and Projections of Education Statistics to 2000. The projections that appeared in the three most recent editions Projections of Education Statistics were developed using the same methodology as those presented here. Those that appeared in Projections of Education Statistics to 2000 were produced using different models.

Mean absolute percentage errors (MAPEs) were for current-fund expenditures and educational and general expenditures can be found on table A6.2. Two alternative sets of MAPEs are presented: with one set, the projections from the last three editions of the Projections of Education Statistics to 2000 were used in the calculations; with the other, the projections from the Projections of Education Statistics to 2000 were also included.

Sources of Data

The current-fund expenditure data and the educational and general expenditure data are from the "Financial Statistics of Institutions of Higher Education" and the Integrated Postsecondary Education Data System (IPEDS), "Finance" surveys of the National Center for Education Statistics (NCES). One manipulation of the educational and general expenditures numbers was required. From 1968-69 to 1973-74, student-aid expenditures were a separate component of current-fund expenditures. From 1974-75 on, scholarships and fellowships have been a component of educational and general expenditures. Hence, for the period 1968-69 to 1973-74, student aid was added to the published numbers for educational and general expenditures.

The full-time-equivalent (FTE) enrollment data are from the "Fall Enrollment in Colleges and Universities" surveys of NCES. The FTE enrollment figures for 1968-69, 1969-70, and 1970-71 were estimated using part-time and fulltime enrollment data. Full-time-equivalent enrollment was derived by adding one-third of the part-time students to the number of full-time students.

The projected values for disposable income and the revenues of state and local governments per capita were developed using DRI/McGraw-Hill's U.S. Quarterly Model. Projected values of the Bureau of Labor Statistic's Consumer Price Index for all urban consumers, which were used for adjusting the higher education finance data, and the implicit price deflator for personal consumption expenditures, which was used for adjusting disposable income per capita, were also developed using the U.S. Quarterly Model. DRI/McGraw-Hill supplied the historic values for these variables.

Both the historic and projected values for the population were supplied by the U.S. Bureau of the Census.

The Higher Education Price Index was considered as a replacement for the Consumer Price Index for placing the higher education expenditures in constant dollars. As projections of the price index are required for placing the forecasts into current dollars, and as there are no projections of the Higher Education Price Index, the Consumer Price Index was used.

The values of all of the variables from DRI were placed in academic-year terms. The data were available in quarterly format so the academic-year numbers were calculated by taking the average of the last 2 quarters of 1 year with the first 2 of the next year.



Table A6.1.—Equations for current-fund expenditures per student in full-time-equivalent enrollment and educational and general expenditures per student in full-time-equivalent enrollment in public 4-year institutions, public 2-year institutions, and private 4-year institutions

| Dependent variable | | Equation | Ř² | Durbin-Watson statistic | Estimation technique * | Rho | |
|--|----------|---|-------|----------------------------|------------------------|----------------|--|
| Current-fund expenditures per student in public 4-year institutions | DPUTCUR4 | = 287 + 2.19DSTREV1 - 0.002DPUFTE4 (5.34) (2.20) (-5.65) - 237DUMMY (-3.50) | 0.701 | 1.88 | OLS | · | |
| Current-fund expenditures per student in public 2-year institutions | DPUTCUR2 | = 9.8 + 3.46DSTREV1 - 0.001DPUFTE2 (0.30) (4.96) (-3.88) | 0.734 | 2.23 | OLS | | |
| Current-fund expenditures per student in private 4-year institutions | DPRTCUR4 | = 474 + 0.34DPCI - 0.008DPRFTE4 (3.59) (1.61) (-5.33) - 485.3ININCR (-5.14) | 0.742 | 1.90 | ARI | 0.72 (4.75) | |
| Educational and general expenditures per student in public 4-year institutions | DPUED4 | = 237 + 1.96DSTREV1 - 0.002DPUFTE4 (4.26) (1.89) (-5.78) - 226DUMMY (-3.21) | 0.687 | 1.66 | OLS | | |
| Educational and general expenditures per student in public 2-year institutions | DPUED2 | = 0.54 + 3.59DSTREV1 - 0.0006DPUFTE2 (0.01) (4.71) (-2.81) | 0.669 | 1.93 | OLS | | |
| Educational and general expenditures per student in private 4-year institutions | DPRIED4 | = 173.7 + 0.46DPCI - 0.004DPRFTE4 (1.31) (1.53) (-1.88) - 414.7ININCR (-3.1) | 0.568 | 2.29 | ARI | 0.46 (2.93 | |

^{*}OLS = Ordinary Least Squares. AR1 is an estimation procedure for correcting the problem of first-order autocorrelation. For a general discussion of the problem of autocorrelation, and the methods to correct it, see Johnston (1972), chapter 8. For a discussion of the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, *The Theory and Practice of Econometrics*, New York: John Wiley and Sons, 1985, pages 315–318.

NOTES: The sample size in for each case is 25. Numbers in parentheses are t-statistics. \bar{R}^2 = Coefficient of determination, adjusted for degrees of freedom. For an explanation of the Durbin-Watson statistic, see J. Johnston, *Econometric Methods*, New York: McGraw-Hill, 1972, pages 251–252. Rho is the first order autocorrelation coefficient estimated when AR1 is used. (This table was prepared November 1995.)

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Table A6.2.—Mean absolute percentage errors by lead time for current-fund expenditures and educational and general expenditures in constant dollars in public and private institutions of higher education by type

| | | | | Mean abs | solute perce | ntage errors | | | |
|-----------|-------|-------|-------|-----------------------|--------------|-----------------------|-------|---------|-----------------------|
| | | _ | | Public | | | • | Private | |
| Lead Time | Total | | | 4-year | | 2-year | | 4 | -year |
| | | Total | Total | Per student in FTE | Total | Per student in FTE | Total | Total | Per student in FTE |
| | | | | Curre | nt-fund exp | enditures | | | |
| | | | | La | st three edi | tions ¹ | | | |
| One | 0.3% | 0.4% | 0.4% | 0.6% | 1.1% | 0.8% | 0.5% | 0.7% | 0.7% |
| Two | 0.4% | 0.4% | 0.6% | 1.6% | 5.0% | 1.9% | 0.9% | 0.9% | 2.1% |
| Three | 0.5% | 0.4% | 1.0% | 1.1% | 6.7% | 2.3% | 0.6% | 0.5% | 1.1% |
| | | | | | Four edition | ns ² | | | |
| One | 1.1% | 0.9% | 1.2% | 1.3% | 1.3% | 1.2% | 1.7% | 1.8% | 1.7% |
| Two | 1.4% | 0.6% | 1.1% | 1.8% | 5.1% | 3.0% | 3.2% | 3.2% | 3.9% |
| Three | 1.5% | 0.2% | 1.0% | 1.2% | 5.5% | 4.4% | 3.6% | 3.5% | 2.8% |
| Four | 5.5% | 3.4% | 4.3% | 1.3% | 0.8% | 6.9% | 9.2% | 9.3% | 7.4% |
| Five | 6.5% | 4.3% | 5.2% | 0.6% | 0.4% | 7.3% | 10.2% | 10.3% | 7.7% |
| Six | 6.8% | 4.4% | 5.3% | 0.7% | 0.5% | 17.1% | 11.0% | 11.0% | 5.9% |
| | | | | Educational | l and genera | al expenditures | | | |
| | | | | La | st three edi | tions ¹ | | | |
| One | 0.1% | 0.4% | 0.7% | 1.0% | 1.0% | 0.8% | 0.8% | 0.9% | 0.9% |
| Two | 0.3% | 0.7% | 1.3% | 1.3% | 5.2% | 1.7% | 1.7% | 1.7% | 2.6% |
| Three | 1.0% | 0.3% | 2.3% | 0.2% | 7.1% | 1.8% | 3.4% | 3.3% | 3.9% |
| | | | | | Four editio | ns ² | | | |
| One | 1.0% | 0.8% | 1.3% | 1.5% | 1.4% | 1.2% | 2.3% | 2.3% | 2.3% |
| Two | 1.4% | 0.6% | 1.6% | 1.6% | 5.2% | 2.9% | 4.1% | 4.0% | 4.6% |
| Three | 1.8% | 0.2% | 1.6% | 0.7% | 5.8% | 4.2% | 5.5% | 5.4% | 4.7% |
| Four | 6.0% | 3.4% | 4.6% | 1.6% | 1.0% | 7.1% | 10.7% | 10.8% | 8.9% |
| Five | 6.5% | 3.6% | 4.5% | 0.2% | 0.2% | 7.4% | 12.1% | 12.2% | 9.6% |
| Six | 6.3% | 2.7% | 3.4% | 2.7% | 0.1% | 17.6% | 12.8% | 12.8% | 7.8% |

¹ Projections of Education Statistics to 2003, Projections of Education Statistics to 2004, and Projections of Education Statistics to 2005.

Projections of Education Statistics to 2000 were calculated using significantly different models than those presented in later editions including

SOURCES: Various issues of Projections of Education Statistics. (This table was prepared October 1995.)



² Projections of Education Statistics to 2000, Projections of Education Statistics to 2003, Projections of Education Statistics to 2004, and Projections of Education Statistics to 2005. The projections presented in the

Appendix B

Supplementary Tables



Table B1.—Annual number of births: 50 States and D.C., 1946 to 2006

(In thousands)

| Calendar Year | Number of Births |
|---------------|------------------|
| 1946 | 3,426 |
| 1947 | 3,834 |
| 1948 | 3,655 |
| 949 | 3,667 |
| 950 | 3,645 |
| 951 | 3,845 |
| 952 | 3,933 |
| 953 | 3,989 |
| 954 | 4,102 |
| 955 | 4,128 |
| 956 | 4,244 |
| 957 | 4,332 |
| 958 | 4,332 |
| 959 | 4,279 |
| 960 | 4,307 |
| 961 | 4,307 4,317 |
| 962 | • |
| 963 | 4,213 |
| 964 | 4,142 |
| 965 | 4,070 |
| 966 | 3,801 |
| 967 | 3,642 |
| 068 | 3,555 |
| 969 | 3,535 |
| 970 | 3,626 |
| 771 | 3,739 |
| 972 | 3,556 |
| 773 | 3,258 |
| 74 | 3,137 |
| | 3,160 |
| 75 76 | 3,144 |
| 77 | 3,168 |
| 78 | 3,327 |
| | 3,333 |
| 79 | 3,494 |
| 80 81 | 3,612 |
| | 3,629 |
| 32 | 3,681 |
| 83 | 3,639 |
| 84 | 3,669 |
| 85 | 3,761 |
| 86 | 3,757 |
| 87 | 3,809 |
| 88 | 3,910 |

Table B1.—Annual number of births:—Continued 50 States and D.C., 1946 to 2006

(In thousands)

| Calendar Year | Number of Births |
|---------------|------------------|
| 1989 | 4,041 |
| 1990 | 4,148 |
| 1991 | 4,111 |
| 1992 | 4,065 |
| 1993 | 4,039 |
| 1994 | 3,949 |
| | Projected |
| 1995 | _ |
| 1996 | _ |
| 1997 | - |
| 1998 | _ |
| 1999 | _ |
| 2000 | |
| 2001 | |
| 2002 | |
| 2003 | _ |
| 2004 | _ |
| 2005 | |
| 2006 | |

NOTE: Projections of the annual number of births are not shown because the U.S. Bureau of the Census has not released its latest birth projections. After the U.S. Bureau of the Census has released the birth projections, these numbers will be available upon request.

SOURCE: U.S. Department of Commerce, Bureau of the Census, "U.S. Population Estimates, by Age, Sex, Race, and Hispanic Origin: 1980 to 1991," Current Population Reports, Series P-25, No. 1095, February 1993; National Center for Health Statistics (NCHS), Monthly Vital Statistics Reports; and unpublished tabulations. (This table was prepared September 1995.)

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Table B2.—Preprimary school-age populations: 50 States and D.C., 1981 to 2006

(In thousands)

| Year (July 1) | 3 years old | 4 years old | 5 years old | 3-5 years old |
|---------------|--------------|-------------|--------------|---------------|
| | 3,261 | 3,274 | 3,129 | 9,664 |
| 981 | 3,361 | 3,297 | 3,274 | 9,932 |
| 982 | 3,479 | 3,398 | 3,296 | 10,173 |
| 983 | | 3,518 | 3,397 | 10,442 |
| 984 | 3,527 | 3,568 | 3,518 | 10,652 |
| 985 | 3,566 | 3,609 | 3,568 | 10,755 |
| 986 | 3,578 | 3,623 | 3,610 | 10,742 |
| 987 | 3,509 | 3,556 | 3,627 | 10,803 |
| 988 | 3,620 | 3,669 | 3,559 | 10,874 |
| 989 | 3,646 | • | 3,679 | 11,034 |
| 990 | 3,658 | 3,697 | 3,701 | 11,136 |
| 991 | 3,718 | 3,717 | 3,722 | 11,312 |
| 992 | 3,812 | 3,778 | 3,788 | 11,634 |
| 993 | 3,968 | 3,878 | | 11,905 |
| 994 | 3,990 | 4,032 | 3,883 | 11,705 |
| | | Proj | ected | |
| 995 | _ | _ | _ | _ |
| 1996 | _ | _ | _ | _ |
| 1997 | _ | _ | _ | |
| 1998 | _ | _ | _ | _ |
| 1999 | _ | _ | - | _ |
| 2000 | _ | _ | _ | _ |
| 2001 | _ | _ | _ | _ |
| 2002 | _ | _ | _ | _ |
| 2003 | _ | _ | _ | _ |
| | | _ | _ | _ |
| 2004 | _ | _ | _ | |
| 2006 | | _ | _ | _ |

NOTE: Projections for the population are not shown because the U.S. Bureau of the Census has not released its latest population projections. After the U.S. Bureau of the Census has released the population projections, these numbers will be available upon request.

SOURCE: U.S. Department of Commerce, Bureau of the Census, "U.S. Population Estimates, by Age, Sex, Race, and Hispanic Origin: 1980 to 1991," *Current Population Reports*, Series P-25, No. 1095, February 1993 and unpublished tabulations. (This table was prepared September 1995.)





Table B3.—School-age populations, ages 5, 6, 5-13, and 14-17 years: 50 States and D.C., 1981 to 2006

(In thousands)

| Year (July 1) | 5 years old | 6 years old | 5-13 years old | 14-17 years old |
|---------------|--------------|----------------|----------------|-----------------|
| 1981 | 3,129 | 3,186 | 30,711 | 15.610 |
| 1982 | 3,274 | 3,133 | 30,528 | 15,610 |
| 1983 | 3,296 | 3,276 | 30,279 | 15,057 |
| 1984 | 3,397 | 3,297 | 30,061 | 14,741 |
| 1985 | 3,518 | 3,398 | 29,892 | 14,726 |
| 1986 | 3,568 | 3,518 | • | 14,888 |
| 1987 | 3,610 | 3,568 | 30,078 | 14,824 |
| 1988 | 3,627 | 3,611 | 30,503 | 14,502 |
| 1989 | 3,559 | • | 31,029 | 14,023 |
| 1990 | 3,679 | 3,625 3,561 | 31,413 | 13,536 |
| 1991 | 3,701 | . , | 31,996 | 13,310 |
| 1992 | 3,722 | 3,681 | 32,495 | 13,421 |
| 1993 | 3,788 | 3,706 | 33,009 | 13,653 |
| 1994 | • • | 3,730 | 33,492 | 13,927 |
| | 3,883 | 3,792 | 33,862 | 14,429 |
| 1995 | | Proje | ected | |
| 1006 | _ | - | | _ |
| 1996 | - | - | | _ |
| 1997 | - | _ | | _ |
| 1998 | - | _ | _ | _ |
| 1999 | - | _ | _ | _ |
| 2000 | _ | | | _ |
| 2001 | _ | _ | _ | _ |
| | | _ | <u>—</u> | |
| | _ | _ | <u> </u> | _ |
| | _ | _ | _ | _ |
| 2005 | _ | _ | <u> </u> | _ |
| 2006 | _ | | _ | - |

NOTE: Projections for the population are not shown because the U.S. Bureau of the Census has not released its latest population projections. After the U.S. Bureau of the Census has released the population projections, these numbers will be available upon request.

SOURCE: U.S. Department of Commerce, Bureau of the Census, "U.S. Population Estimates, by Age, Sex, Race, and Hispanic Origin: 1980 to 1991," Current Population Reports, Series P-25, No. 1095, February 1993 and unpublished tabulations. (This table was prepared September



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Table B4.—College-age populations, ages 18, 18-24, 25-29, 30-34, and 35-44 years: 50 States and D.C., 1981 to 2006

(In thousands)

| Year (July 1) | 18 years old | 18-24 years old | 25-29 years old | 30-34 years old | 35-44 years old |
|---------------|--------------|-----------------|-----------------|-----------------|-----------------|
| 1981 | 4,186 | 30,505 | 20,275 | 18,798 | 26,454 |
| 1982 | 4,136 | 30,433 | 20,816 | 18,781 | 28,095 |
| 1983 | 3,978 | 30,174 | 21,259 | 19,137 | 29,336 |
| 1984 | 3,774 | 29,706 | 21,584 | 19,576 | 30,575 |
| 1985 | 3,686 | 29,151 | 21,804 | 20,102 | 31,767 |
| 1986 | 3,623 | 28,467 | 22,018 | 20,552 | 33,081 |
| 1987 | 3,703 | 27,928 | 21,982 | 21,058 | 34,299 |
| 1988 | 3,803 | 27,585 | 21,868 | 21,470 | 35,258 |
| | 3.889 | 27,379 | 21,690 | 21,758 | 36,494 |
| 1989 | 3,603 | 27,036 | 21,357 | 21,991 | 37,848 |
| 1990 | 3,385 | 26,553 | 20.853 | 22,243 | 39,358 |
| 1991 | 3,313 | 26,085 | 20,267 | 22,321 | 39,952 |
| 1992 | 3,396 | 25,789 | 19,702 | 22,313 | 40,847 |
| 1993 | , | 25,381 | 19,246 | 22,236 | 41,718 |
| 1994 | 3,352 | 23,361 | Projected | 22,200 | , . |
| | | | Trojecteu | _ | _ |
| 1995 | _ | _ | _ | _ | _ |
| 1996 | _ | _ | _ | _ | _ |
| 1997 | _ | _ | _ | _ | _ |
| 1998 | _ | _ | _ | _ | _ |
| 1999 | _ | _ | _ | _ | _ |
| 2000 | _ | _ | _ | _ | _ |
| 2001 | _ | _ | _ | _ | _ |
| 2002 | | _ | _ | _ | _ |
| 2003 | _ | _ | _ | _ | _ |
| 2004 | _ | _ | _ | _ | _ |
| 2005 | _ | _ | _ | | _ |
| 2006 | _ | _ | _ | — _ | |

NOTE: Projections for the population are not shown because the U.S. Bureau of the Census has not released its latest population projections. After the U.S. Bureau of the Census has released the population projections, these numbers will be available upon request.

SOURCE: U.S. Department of Commerce, Bureau of the Census, "U.S. Population Estimates, by Age, Sex, Race, and Hispanic Origin: 1980 to 1991," Current Population Reports, Series P-25, No. 1095, February 1993 and unpublished tabulations. (This table was prepared September



Table B5.—Average daily attendance (ADA) in public elementary and secondary schools, change in ADA, the population, and ADA as a proportion of the population: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | ADA ¹ (in thousands) | Change in ADA | Population ² (in millions) | ADA as a proportion of the the population ² |
|-------------|------------------------------------|---------------|---------------------------------------|--|
| 1981 | 37,704 | -585,167 | 227.7 | 0.166 |
| 1982 | 37,095 | -609,092 | 230.0 | 0.161 |
| 1983 | 36,636 | -458,784 | 232.2 | 0.158 |
| 1984 | 36,363 | -272,890 | 234.3 | 0.155 |
| 1985 | 36,404 | 41,283 | 236.3 | 0.154 |
| 1986 | 36,523 | 118,842 | 238.5 | 0.153 |
| 1987 | 36,864 | 340.764 | 240.7 | 0.153 |
| 1988 | 37,051 | 186,840 | 242.8 | 0.153 |
| 1989 | 37,268 | 217,365 | 245.0 | 0.152 |
| 1990 | 37,799 | 531,224 | 247.3 | 0.152 |
| 1991 | 38,427 | 627,247 | 249.9 | 0.154 |
| 1992 | 38,961 | 534,240 | 252.6 | 0.154 |
| 1993 | 39,567 | 606,111 | 255.4 | 0.155 |
| 19943 | 40,335 | 767.667 | 258.1 | 0.156 |
| 1995 4 | 41.034 | 699,538 | 260.7 | 0.157 |
| | , | Projec | | 0.137 |
| 1996 | 41,819 | 784,923 | teu | |
| 1997 | 42,570 | 750,885 | _ | _ |
| 1998 | 43,163 | 592,825 | | _ |
| 1999 | 43,593 | 429,911 | _ | _ |
| 2000 | 43,943 | 349.873 | _ | _ |
| 2001 | 44,213 | 270,147 | _ | _ |
| 2002 | 44,431 | 218,169 | _ | _ |
| 2003 | 44,627 | 195,814 | _ | _ |
| 2004 | 44,749 | 122,226 | _ | _ |
| 2005 | 44,870 | 121,395 | _ | _ |
| 2006 | 44,870 | , - | _ | _ |
| | | 122,847 | - | _ |

¹ Projections of average daily attendance were made by multiplying the forecasts for enrollment reported earlier in this publication by the average value of the ratio average daily attendance to the enrollment from 1984 to 1993, approximately 0.93 percent.

SOURCE: U.S. Department of Commerce, Bureau of the Census, "U.S. Population Estimates, by Age, Sex, Race, and Hispanic Origin: 1980 to 1991," Series P-25, No. 1095, February 1994 and unpublished tabulations; U.S. Department of Education, National Center for Education Statistics, Statistics of State School Systems; Common Core of Data survey; and the Early Estimates survey; DRI/McGraw-Hill, 'U.S. Quarterly Model.' (This table was prepared October 1995.)



² Projections for the population and ADA as a proportion of the population are not shown because the U.S. Bureau of the Census has not released its latest population projections. After the U.S. Bureau of the Census has released the population projections, these numbers will be available upon request.

³ Average daily attendance is projected.

⁴ Projected.

Table B6.—Disposable income per capita (in constant 1993-94 dollars), with alternative projections: 50 states and D.C., 1980-81 to 2005-2006

| Year ending | _ | Disposable income per capita | |
|-------------|--------------------------------------|-----------------------------------|------------------------------------|
| 081 | \$15,514 | <u> </u> | _ |
| 982 | 15,617 | _ | |
| 983 | 15,646 | - | _ |
| 184 | 16,309 | _ | _ |
| 85 | 16,941 | _ | _ |
| 86 | 17,205 | _ | _ |
| 87 | 17,357 | _ | _ |
| 88 | 17,613 | - | |
| 89 | 17,957 | _ | _ |
| 90 | 18,070 | _ | |
| 91 | 18,034 | _ | _ |
| 92 | 18,097 | _ | · — |
| 93 | 18,419 | _ | _ |
| 94 | 18,621 | _ | _ |
| 952 | 19,167 | _ | _ |
| | Middle alternative projections | Low alternative projections | High alternative projections |
| 2006 | 19,492 | \$19,481 | \$19,527 |
| 96 97 | 19,771 | 19,608 | 19,953 |
| | 20,006 | 19,626 | 20,370 |
| 98 | 20,296 | 19,707 | 20,832 |
| 99 | 20,569 | 19,805 | 21,254 |
| 00 | 20,837 | 19,923 | 21,649 |
| 01 | 21,088 | 20,051 | 22,009 |
| 02 | 21,321 | 20,189 | 22,328 |
| 04 | 21,579 | 20,366 | 22,655 |
| | 21,863 | 20,573 | 23,007 |
| 005 | | | |

¹ Based on the price deflator for personal consumption expenditures, Bureau of Labor Statistics, U.S. Department of Labor.

² Projected.

SOURCE: DRI/McGraw-Hill, "U.S. Quarterly Model." (This table was prepared October 1995.)



Table B7.—Education revenue receipts from state source per capita (in constant 1993-94 dollars), 1 with alternative projections: 50 states and D.C. 1980-81 to 2005-2006

| Year ending | | Education revenue receipts from state sources per capita | |
|-------------------------|-------------|--|-------------|
| 981 | \$372 | | |
| 982 | 354 | <u> </u> | _ |
| 983 | 361 | _ | _ |
| 984 | 369 | | _ |
| 985 | 393 | _ | _ |
| 986 | 415 | _ | |
| 87 | 431 | _ | _ |
| 88 | 437 | | _ |
| 89 | 452 | _ | _ |
| 90 | 457 | _ | |
| 91 | 460 | <u></u> | _ |
| 92 | 456 | <u> </u> | - |
| 93 | 456 | | _ |
| <i>1</i> 4 ² | 468 | | _ |
| 95 2 | 473 | | |
| | | | |
| | Middle | Low | High |
| | alternative | alternative | alternative |
| | projections | projections | projections |
| <u>6</u> | 482 | \$480 | \$483 |
| 7 | 491 | 488 | 493 |
| 8 | 504 | 498 | 512 |
| 9 | 512 | 499 | 523 |
| 00 | 521 | 502 | |
| 1 | 527 | 504 | 539 |
| 2 | 534 | 506 | 549 |
| 3 | 539 | 509 | 559 |
| 4 | 543 | 511 | 568 |
| 5 | 548 | 515 | 574 |
| 06 | 554 | 513 520 | 580 |
| | | 320 | 588 |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of State School Systems; Common Core of Data survey; and Early Estimates survey; and National Education Association, annual Estimates of State School Statistics. (Latest edition 1994-95. Copyright 1995 by the National Education Association. All rights reserved.) (This table was prepared October 1995.)

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² Projected.

Table B8.—Consumer Price Index (base year 1993-94), with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | | Consumer Price Index | |
|-------------|--------------------------------------|-----------------------------------|------------------------------------|
| 981 | 0.592 | _ | _ |
| 982 | 0.643 | - | _ |
| 983 | 0.671 | _ | _ |
| 984 | 0.696 | - | _ |
| 985 | 0.723 | | _ |
| 986 | 0.744 | _ | _ |
| 987 | 0.761 | - | _ |
| 988 | 0.792 | _ | _ |
| 989 | 0.829 | | _ |
| 990 | 0.868 | _ | _ |
| 991 | 0.916 | - | _ |
| 992 | 0.945 | _ | _ |
| 993 | 0.975 | | _ |
| 994 | 1.000 | _ | _ |
| 995 * | 1.029 | - | _ |
| | Middle alternative projections | Low alternative projections | High alternative projections |
| 996 | 1.059 | 1.065 | 1.057 |
| | 1.093 | 1.114 | 1.086 |
| 997 | 1.128 | 1.168 | 1.112 |
| 999 | 1.166 | 1.228 | 1.143 |
| 2000 | 1.205 | 1.289 | 1.175 |
| | 1.247 | 1.354 | 1.211 |
| | 1.291 | 1.422 | 1.250 |
| 2002 | 1.338 | 1.491 | 1.293 |
| 2003 | 1.388 | 1.564 | 1.340 |
| 2004 | 1.442 | 1.641 | 1.391 |
| 2005 | 1.442 | | |

^{*} Projected.

SOURCE: DRI/McGraw-Hill "U.S. Quarterly Model." (This table was prepared October 1995.)



Table B9.—Rate of change for the inflation rate based on the Consumer Price Index, with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | | Rate of change for the inflation rate | |
|-------------|--------------------------------------|---------------------------------------|------------------------------------|
| 1981 | -0.126 | | _ |
| 1982 | -0.252 | - | |
| 1983 | -0.508 | _ | _ |
| 984 | -0.134 | - | _ |
| 985 | 0.059 | _ | _ |
| 986 | -0.259 | _ | _ |
| 987 | -0.231 | _ | _ |
| 988 | 0.859 | _ | _ |
| 989 | 0.100 | _ | _ |
| 990 | 0.047 | | _ |
| 991 | 0.148 | | _ |
| 992 | -0.419 | _ | |
| 993 | -0.022 | _ | _ |
| 994 | -0.163 | _ | _ |
| 995 * | 0.092 | _ | _ |
| | Middle alternative projections | Low alternative projections | High alternative projections |
| 996 | 0.048 | 0.240 | -0.028 |
| 997 | 0.073 | 0.306 | -0.028 -0.027 |
| 998 | -0.007 | 0.055 | -0.027 -0.085 |
| 999 | 0.045 | 0.040 | 0.100 |
| 000 | 0.016 | -0.010 | 0.040 |
| 001 | 0.026 | 0.000 | 0.040 |
| 002 | 0.026 | -0.005 | 0.067 |
| 003 | 0.018 | -0.003 | 0.048 |
| 004 | 0.025 | -0.0021 | 0.048 |
| 005 | 0.044 | 0.005 | 0.057 |
| 006 | 0.054 | 0.013 | 0.069 |

^{*} Projected.

SOURCE: DRI/McGraw-Hill "U.S. Quarterly Model." (This table was prepared October 1995.)



| Year ending | | Personal tax and nontax payments per capita | |
|-------------|-------------|---|-------------|
| 981 | \$443 | _ | _ |
| 982 | 445 | _ | _ |
| 983 | 459 | _ | _ |
| 984 | 506 | _ | _ |
| 985 | 530 | _ | _ |
| 986 | 548 | _ | · — |
| 987 | 592 | _ | _ |
| 988 | 589 | • — | _ |
| 089 | 613 | _ | _ |
| 990 | 631 | - | _ |
| 91 | 624 | _ | |
| 92 | 644 | _ | _ |
| 93 | 653 | _ | _ |
| 94 | 665 | _ | |
| 95 2 | 676 | _ | _ |
| | Middle | Low | High |
| | alternative | alternative | alternative |
| | projections | projections | projections |
| 96 | 682 | \$684 | \$681 |
| 97 | 699 | 697 | 704 |
| 98 | 715 | 705 | 728 |
| 99 | 731 | 713 | 751 |
| | 744 | 722 | 772 |
| 01 | 757 | 730 | 791 |
| 02 | 769 | 738 | 808 |
| 03 | 780 | 746 | 824 |
| 04 | 792 | 756 | 841 |
| 05 | 806 | 766 | 859 |
| | 820 | 777 | 879 |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

² Projected.

SOURCE: DRI/McGraw-Hill "U.S. Quarterly Model." (This table was prepared October 1995.)



Table B11.—Indirect business taxes and nontax accruals, excluding property taxes, for state and local governments, per capita (in constant 1993-94 dollars), with alternative projections: 50 States and D.C., 1980-81 to 2005-2006

| Year ending | | Indirect business taxes and nontax accruals per capita | |
|-------------|--------------------------------------|--|------------------------------------|
| 1981 | \$813 | _ | |
| 1982 | 798 | _ | _ |
| 1983 | 814 | - | _ |
| 1984 | 884 | _ | _ |
| 1985 | 925 | - | |
| 1986 | 970 | _ | _ |
| 1987 | 984 | - | _ |
| 1988 | 997 | _ | _ |
| 1989 | 998 | _ | _ |
| 1990 | 1,006 | _ | |
| 1991 | 989 | | |
| 1992 | 1,000 | _ | _ |
| 1993 | 1,010 | | |
| 1994 | 1,023 | | _ |
| 1995 2 | 1,039 | _ | _ |
| | Middle alternative projections | Low alternative projections | High alternative projections |
| 1996 | 1,060 | \$1,059 | \$1,063 |
| 1997 | 1,086 | 1,071 | 1,101 |
| 1998 | 1,100 | 1,066 | 1,132 |
| 1999 | 1,117 | 1,065 | 1,162 |
| 2000 | 1,130 | 1,066 | 1,185 |
| 2001 | 1,144 | 1,070 | 1,206 |
| 2002 | 1,155 | 1,074 | 1,223 |
| 2003 | 1,164 | 1,081 | 1,235 |
| 2004 | 1,175 | 1,090 | 1,248 |
| 2005 | 1,188 | 1,100 | 1,263 |
| 2006 | 1,200 | 1.112 | 1,279 |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: DRI/McGraw-Hill, "U.S. Quarterly Model." (This table was prepared October 1995.)

² Projected.



| Year ending | | Tax and nontax payments per capita | |
|-------------|----------------------------|------------------------------------|----------------------------|
| 981 | \$1,256 | _ | _ |
| 982 | 1,242 | | _ |
| 983 | 1,274 | _ | _ |
| 984 | 1,390 | _ | _ |
| 85 | 1,456 | _ | _ |
| 86 | 1,518 | _ | _ |
| 87 | 1,576 | _ | |
| 88 | 1,586 | _ | _ |
| 39 | 1,611 | _ | _ |
| 90 | 1,636 | _ | _ |
| 91 | 1,613 | _ | _ |
| 92 | 1,643 | _ | _ |
| 93 | 1,662 | _ | _ |
| 94 | 1,688 | _ | _ |
| 95 2 | 1,715 | _ | _ |
| | Middle | Low | High |
| | alternative projections | alternative projections | alternative projections |
| 96 | 1,742 | \$1,742 | \$1,744 |
| 97 | 1,784 | 1,767 | 1,805 |
| 98 | 1,815 | 1,770 | 1,860 |
| 99 | 1,847 | 1,778 | 1,913 |
| 00 | 1,874 | 1,788 | 1,957 |
| 01 | 1,901 | 1,799 | 1,997 |
| 02 | 1,924 | 1,813 | 2,031 |
| 03 | 1,944 | 1,827 | 2,059 |
| 04 | 1,967 | 1,845 | 2,089 |
| 05 | 1,993 | 1,866 | 2,123 |
| 06 | 2,020 | 1,889 | 2,157 |

¹ Based on the Consumer Price Index for all urban consumers, Bureau of Labor Statistics, U.S. Department of Labor.

² Projected.

SOURCE: DRI/McGraw-Hill "U.S. Quarterly Model." (This table was prepared October 1995.)



Appendix C

Data Sources

Sources and Comparability of Data

The information in this report was obtained from many sources, including Federal and state agencies, private research organizations, and professional associations. The data were collected by many methods, including surveys of a universe (such as all colleges) or of a sample, and compilations of administrative records. Care should be used when comparing data from different sources. Differences in procedures, such as timing, phrasing of questions, and interviewer training mean that the results from the different sources are not strictly comparable. More extensive documentation of one survey's procedures than of another's does not imply more problems with the data, only that more information is available.

Accuracy of Data

The accuracy of any statistic is determined by the joint effects of "sampling" and "nonsampling" errors. Estimates based on a sample will differ from the figures that would have been obtained if a complete census had been taken using the same survey instruments, instructions, and procedures. Besides sampling errors, both surveys, universe and sample, are subject to errors of design, reporting, processing, and errors due to nonresponse. To the extent possible, these nonsampling errors are kept to a minimum by methods built into the survey procedures. In general, however, the effects of nonsampling errors are more difficult to gauge than those produced by sampling variability.

Sampling Errors

The standard error is the primary measure of sampling variability. It provides a specific range—with a stated confidence—within which a given estimate would lie if a complete census had been conducted. The chances that a complete census would differ from the sample by less than the standard error are about 68 out of 100. The chances that the difference would be less than 1.65 times the standard error are about 90 out of 100. The chances that the difference would be less than 1.96 times the standard error are about 95 out of 100. The chances that it would be less than 2.58 times as large are about 99 out of 100.

The standard error can help assess how valid a comparison between two estimates might be. The standard error of a difference between two sample estimates that are uncorrelated is approximately equal to the square root of the sum of the squared standard errors of the estimates. The standard error (se) of the difference between sample estimate "a" and sample estimate "b" is:

$$se_{a-b} = (se_a^2 + se_b^2)^{1/2}$$

Note that most of the standard errors in subsequent sections and in the original documents are approximations. That is, to derive estimates of standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. As a result, most of the standard errors presented provide a general order of magnitude rather than the exact standard error for any specific item.

Nonsampling Errors

Both universe and sample surveys are subject to nonsampling errors. Nonsampling errors are of two kinds random and nonrandom. Random nonsampling errors may arise when respondents or interviewers interpret questions differently, when respondents must estimate values, or when coders, keyers, and other processors handle answers differently. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of respondents to provide information, difficulty interpreting questions, mistakes in recording or keying data, errors of collection or processing, and overcoverage or undercoverage of the target universe. Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Because estimating the magnitude of nonsampling errors would require special experiments or access to independent data, these magnitudes are seldom

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. An adjustment made for either type of nonresponse is often referred to as an imputation, that is, substitution of the "average" questionnaire response



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for the nonresponse. Imputations are usually made separately within various groups of sample members that have similar survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics that are similar to those of the nonrespondent.

Although the magnitude of nonsampling errors in the data used in this *Projections of Education Statistics* is frequently unknown, idiosyncrasies that have been identified are noted on the appropriate tables.

Federal Agency Sources

National Center for Education Statistics (NCES)

Common Core of Data

NCES uses the Common Core of Data (CCD) survey to acquire and maintain statistical data on the 50 states, the District of Columbia, and the outlying areas from the universe of state-level education agencies. Information about staff and students is collected annually at the school, LEA (local education agency or school district), and state levels. Information about revenues and expenditures is also collected at the state level.

Data are collected for a particular school year (July 1 through June 30) via survey instruments sent to the states by October 15 of the subsequent school year. States have 2 years in which to modify the data originally submitted.

Since the CCD is a universe survey, the CCD information presented in this edition of *Projections of Education Statistics* is not subject to sampling errors. However, nonsampling errors could come from two sources—nonreturn and inaccurate reporting. Almost all of the states submit the six CCD survey instruments each year, but submissions are sometimes incomplete or too late for publication.

Understandably, when 57 education agencies compile and submit data for over 85,000 public schools and approximately 15,000 local school districts, misreporting can occur. Typically, this results from varying interpretation of NCES definitions and differing recordkeeping systems. NCES attempts to minimize these errors by working closely with the Council of Chief State School Officers (CCSSO).

The state education agencies report data to NCES from data collected and edited in their regular reporting cycles. NCES encourages the agencies to incorporate into their own survey systems the NCES items they do not already collect so that those items will also be available for the subsequent CCD survey. Over time, this has meant fewer missing data cells in each state's response, reducing the need to impute data.

NCES subjects data from the education agencies to a comprehensive edit. Where data are determined to be an are sistent, missing, or out of range, NCES contacts the

education agencies for verification. NCES-prepared state summary forms are returned to the state education agencies for verification. States are also given an opportunity to revise their state-level aggregates from the previous survey cycle.

Questions concerning the Common Core of Data can be directed to:

John Sietsema Elementary/Secondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Early Estimates System. The early estimates system is designed to allow NCES to report selected key statistics early in the school year. The information is collected through contact with public school state education agencies and a sample of private schools. Details of the two systems follow.

The source of universe statistical information about public elementary and secondary education is the Common Core of Data (CCD)—data collected annually by NCES from state education agencies. These data are reported to NCES in March, undergo NCES and state editing, and become available for publication in September—full year after the beginning of the school year. High school graduate and fiscal data are reported a year later than student and teacher data. In contrast, the estimates included in this report are made in December of the school year to which they apply.

Fifty states, the District of Columbia, and three outlying areas participated in the public school early estimates survey in 1993. The estimates reported here were provided by state education agencies and represent the best information on public elementary and secondary schools available to states at this early stage of the school year. They are, however, subject to revision. The estimates for the remaining eight states and three outlying areas were imputed by NCES.

The source of universe statistical information on private schools in the United States is the Private School Survey. The private school universe consists of a diverse population of schools, including those with a religious orientation (for example, Catholic, Lutheran, and Jewish) as well as nonsectarian schools that include programs ranging from regular to special emphasis and special education. The private school early estimates is one reporting component of the universe collection. The basic statistical information included in this data system is collected from all private schools in the NCES universe, and the early estimates are based on a subsample of that universe.

NCES is continuing to examine and evaluate various methodologies to obtain better estimates and improve the data collection system for public and private elementary and secondary education. In the fall of 1992, the private school early estimates data were collected using Computer Assisted Telephone Interviewing, or CATI. This technique helps reduce errors in the data due to reporting or keying

error, and provides an on-line editing system that enables interviewers to verify inconsistent responses.

Questions concerning the Early Estimates System can be directed to:

Frank Johnson

Elementary/Secondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Private School Early Estimates System: 1988–89. The private school early estimates are the first reporting component of the Private School Universe data collection system. In subsequent years, the statistical information will be collected from all private schools in the NCES universe, and the early estimates will be based on a subsample of that universe.

Early in October 1988, questionnaires were mailed to a national probability sample of 1,167 private elementary and secondary schools from a universe of approximately 30,000 private schools. Telephone followup nonrespondents was initiated in late October, and data collection was completed in late November. The overall response rate was 94 percent: 978 of the 1,035 eligible schools. Some 132 of the original 1,167 schools in the sample were determined to be out of scope. While this survey was not designed specifically to yield an estimate of the number of private schools, the number of outof-scope schools identified in this survey resulted in a weighted estimate of approximately 26,300 private schools.

The sampling frame used for the survey was composed of two nonoverlapping frames: the NCES list frame of approximately 24,000 eligible schools, and an area frame developed by the Census Bureau for 75 Primary Sampling Units (PSUs). The area frame yielded a sample size of 523 schools for the Schools and Staffing Survey (SASS). The private school early estimates area sample was drawn from the SASS area sample. The sample from the area frame was sorted by level of school, by religious orientation class within school level, then by PSU within religious orientation class, and finally by student membership within PSU.

The sample from the list frame was stratified by level of school (elementary, secondary, combined, and other) and religious orientation (Catholic, other religious, and nonsectarian), and within strata, schools were further sorted by Office of Education regions, and by student membership size within region. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership, and samples were selected with probabilities proportionate to size from each orientation/level stratum.

The survey data were weighted to reflect the sampling rates (probability of selection) and were adjusted for nonresponse. Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as jackknife. The standard errors for

private school early estimates for school years 1987–88 and 1988–89 are shown in the table below.

| Students (1988–89) | Teachers (1988–89) | Graduates (1987–88) |
|-----------------------|--------------------|------------------------|
| 96,779.9 | 7,624.7 | 9,605.4 |

Nonsampling errors may include such things as differences in the respondents' interpretation of the meaning to the questions, differences related to the particular time the survey was conducted, or errors in data preparation. During the design of the survey and survey pretest, an effort was made to check for consistency of interpretation of questions and to eliminate ambiguous items. The questionnaire was pretested with respondents like those who completed the survey, and the questionnaire and instructions were extensively reviewed by NCES and representatives of private school associations attending the NCES private school data users meeting. Manual and machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Extensive telephone followup was conducted for missing or inconsistent items; data were keyed with 100-percent verification.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was used to complement the list frame through the identification of schools missing from the list frame. As the Early Estimates System and the Private School Universe data collection system develop, efforts will be directed toward updating the universe list and identifying and minimizing sources of undercoverage in both the list and area frames.

Questions concerning the Private School Early Estimates System can be directed to:

Marilyn M. McMillen
Elementary/Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208

Private School Early Estimates System: 1989–90. This is the second in a series of early estimates for private elementary and secondary education. These early estimates are key statistics reported early in the school year and include the numbers of teachers, students, and high school graduates for private elementary and secondary schools. In subsequent years, the statistical information will be collected from all private schools in the NCES universe, and the early estimates will be based on a subsample of that universe.

Early in October 1989, questionnaires were mailed to a national probability sample of 1,169 private elementary and secondary schools from a universe of approximately 27,000 private schools. Telephone followup of nonrespondents was initiated in late October, and data collection was completed in late November. The overall response rate was 95 percent: 986 of the 1,042 eligible schools. Some 127 of the original 1,167 schools in the sample were determined to be out of scope. While this survey was not designed specifically to yield an estimate



of the number of private schools, the number of outof-scope schools identified in this survey resulted in a weighted estimate of approximately 26,645 private schools.

The sampling frame used for the survey was composed of two nonoverlapping frames: the NCES list frame of approximately 24,000 eligible schools, and an area frame developed by the Census Bureau for 75 Primary Sampling Units (PSUs). The area frame yielded a sample size of 523 schools for the Schools and Staffing Survey (SASS). The private school early estimates area sample was drawn from the SASS area sample. The sample from the area frame was sorted by level of school, by religious orientation class within school level, then by PSU within religious orientation class, and finally by student membership within PSU.

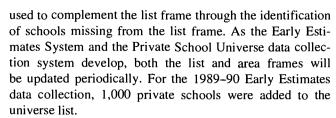
The sample from the list frame was stratified by level of school (elementary, secondary, combined, and other) and religious orientation (Catholic, other religious, and nonsectarian), and within strata, schools were further sorted by Census regions, and by student membership size within region. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership. The sample design for the list frame was similar, differing in two ways from the design for the area frame. First, stratification by level of school yielded four, rather than three categories: elementary, secondary, combined, and other. Second, the measure of size was simply the square root of student membership.

The survey data were weighted to reflect the sampling rates (probability of selection) and were adjusted for nonresponse. Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication. The standard errors for private school early estimates for school years 1988–89 and 1989–90 are shown in the table below.

| Students | Teachers | Graduates | |
|-----------|-----------|-----------|--|
| (1989–90) | (1989–90) | (1988–89) | |
| 117,830.9 | 8,636.1 | 13,305.6 | |

Nonsampling errors may include such things as differences in the respondents' interpretations of the meaning to the questions, differences related to the particular time the survey was conducted, or errors in data preparation. The survey instrument used in the 1989–90 Early Estimates data collection was developed based on the experiences of the 1988-89 Early Estimates data collection. The form was modified as needed to accommodate one data collection instrument for both the Early Estimates and Universe components of the Private School data collection system. The content of the survey was developed in consultation with representatives of private school associations attending NCES private school data users meetings. The questionnaire and instructions were extensively reviewed by NCES staff. Manual and machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Data were keyed with 100-percent verification.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was



Questions concerning the Private School Early Estimates System can be directed to:

Marilyn M. McMillen Elementary/Secondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Private School Early Estimates System: 1990–91. Early in September 1990, questionnaires were mailed to a national probability sample of 1,167 private elementary and secondary schools. Telephone collection of the data began in early October and was completed in mid-October. The overall response rate was 98 percent: 1,098 of the 1,119 eligible schools. Some 48 of the original 1,167 schools in the sample were determined to be out of scope. After adjusting for out-of-scope schools, the weighted estimate of private schools is 24,553.

The sampling frame used for the survey was composed of two nonoverlapping frames: the NCES Private School Survey list of approximately 20,584 eligible schools (the universe list), and an area frame developed by the Census Bureau, consisting of 923 schools identified in 123 sampled geographic areas (Primary Sampling Units or PSUs). The list frame was stratified by level of school (elementary, secondary, combined, other, and unknown) and religious orientation (Catholic, other religious, and nonsectarian); within strata, schools were further sorted by Census region and by student membership size within region. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership.

The area frame is constructed from a sample survey designed to capture those schools not included in the universe list. The 923 schools identified in the sampled areas are weighted to a national estimate of the number of private schools not included in the universe list. This weighted number is then added to the universe count to produce an estimate of the total number of private schools in the United States. For the early estimate, the area frame was stratified by level of school (elementary, secondary, and other) and religious orientation (Catholic, other religious, and nonsectarian). Within strata, schools were further sorted by FIPS (Federal Information Processing Standards) state code, by FIPS county code within states, and by student membership within counties. Samples were selected with probabilities proportionate to size from each stratum. The measure of size used for this purpose was the square root of student membership multiplied by the inverse of the probability of selection of the PSU in which the school is located.

A new estimation procedure was used to produce the 1990 private school early estimates. This procedure used

the estimates obtained from the entire universe of private schools in the Private School Survey of 1989 and adjusted these estimates for the change reflected in the 1990 early estimates data collections. The steps of this procedure were: (1) obtain Private School Survey (PSS) universe estimates for the data elements desired; (2) adjust PSS estimates for partial and total nonresponse; (3) collect 1990 early estimates data for the data elements; (4) weight the early estimate sample to reflect the sampling rates (probability of selection) and to adjust for total nonresponse separately by the sampling strata and by enrollment; (5) measure the change for these data elements between the PSS and the early estimates data collection for those schools that were in the early estimates sample and had the appropriate data for both 1989 and 1990; and (6) apply the change calculated in step 5 to the data from all of the schools in the PSS universe. Numbers in the tables and text have been rounded. Ratios have been calculated on the actual estimates rather than the rounded values. The 1990 early estimates were adjusted to account for both total and partial nonresponses.

Sample survey data, such as the private school estimates data, are subject to error due to variations in sampling. The standard error is a measure of the variability due to sampling when estimating a statistic. Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication. The standard errors for private school early estimates for school years 1989-90 and 1990-91 are shown in the table below.

| Students | Teachers | Graduates |
|-----------|-----------|-----------|
| (1990–91) | (1990–91) | (1989–90) |
| 96,270.9 | 7,341.5 | 15,850.2 |

Survey estimates are also subject to errors of reporting and errors made in the collection and processing of the data. These errors, called nonsampling errors, can sometimes bias the data. Nonsampling errors may include such things as differences in the respondents' interpretations of the meaning to the questions, differences related to the particular time the survey was conducted, or errors in data preparation. The survey instrument used in the 1990-91 private school early estimates data collection was revised as a result of the experiences of the 1989-90 private school early estimates data collection. The content of the survey was developed in consultation with representatives of private school associations attending NCES meetings for users of private school data. The questionnaire and instructions were reviewed extensively by NCES staff. Manual and machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Data were keyed with 100-percent verification.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was used to complement the list frame through the identification of schools missing from the list frame. As the Private Chool Early Estimates System and the Private School

Survey (the universe data collection) system develop, both the list and area frames will be updated periodically.

Questions concerning the Private School Early Estimates System can be directed to:

Sharon A. Bobbitt Elementary/Secondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Private School Early Estimates System: 1991-92. Early in September 1991, questionnaires were mailed to a national probability sample of 1,163 private elementary and secondary schools. Telephone collection of the data began in early October and was completed in mid-October. The overall response rate was 96.5 percent: 1,064 of the 1,103 eligible schools. Some 60 of the original 1,163 schools in the sample were determined to be out of scope. After adjusting for out-of-scope schools, the weighted estimate of private schools is 24,284.

The sampling frame used for the Private School Early Estimates Survey was the 1989-1990 NCES Private School Survey (PSS). This survey collected information on the number of teachers and students in private schools, by school religious orientation and level as well as actual and projected counts of high school graduates. The PSS, and therefore the early estimates survey, uses two nonoverlapping frames: the list frame of approximately 21,515 eligible schools (the universe list), and an area frame developed by the Census Bureau, consisting of 933 schools identified in 124 sampled geographic areas (Primary Sampling Units or PSUs). The area frame is constructed from a sample survey designed to capture those schools not included in the universe list and is repeated every 2 years. The 933 schools identified in the sampled areas are weighted to a national estimate of the number of private schools not included in the universe list. This weighted number is then added to the universe count to produce an estimate of the total number of private schools in the United States.

For the early estimates, the list frame was stratified by level of school (elementary, secondary, combined, other, and unknown) and religious orientation (Catholic, other religious, and nonsectarian); within strata, schools were further sorted by Census region and by student membership size within region. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership.

The area frame was stratified by level of school (elementary, secondary, and other) and religious orientation (Catholic, other religious, and nonsectarian). Within strata, schools were further sorted by FIPS (Federal Information Processing Standards) state code, by FIPS county code within states, and by student membership within counties. Samples were selected with probabilities proportionate to size from each stratum. The measure of size used for this purpose was the square root of student membership multiplied by the inverse of the probability of selection of the PSU in which the school is located.

The list and area samples for the 1991 early estimates were the same as the 1990 early estimate samples.

The estimation procedure used the estimates obtained from the NCES frame of private schools (1989 Private School Survey) and adjusted those estimates for the change reflected in the 1991 early estimates data collections. The steps of this procedure were: 1) obtain Private School Survey (PSS) frame estimates for the data elements desired, adjusting for both partial and total nonresponse; 2) collect 1991 early estimates data for the data elements; 3) weight the early estimate sample to reflect the sampling rates (probability of selection), adjusting for total nonresponse separately by the sampling strata and by enrollment; 4) for each of the data elements, compute the weighted ratio of the 1991 early estimates data and the 1989 PSS data for those schools that reported for both time periods (the change from 1989 to 1991); and 5) multiply the change calculated in step 4 by the appropriate PSS estimate in step 1. Numbers in the tables and text have been rounded. Ratios have been calculated on the actual estimates rather than the rounded values. The 1990 early estimates were adjusted to account for both total and partial nonresponse.

Sample survey data, such as the private school estimates data, are subject to error due to variations in sampling. The standard error is a measure of the variability due to sampling when estimating a statistic. Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication. The standard errors for private school early estimates for school years 1990–91 and 1991–92 are shown in the table below.

| Students | Teachers | Graduates |
|-----------|-----------|-----------|
| (1991–92) | (1991-92) | (1990–91) |
| 80,031.0 | 8,320.1 | 13,062.3 |

Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication (BRR)—a technique that splits the sample into several different half-samples. Weight adjusted estimates are computed from the half-samples. Finally, the standard error of the half-sample estimates is used as an approximation for the full-sample standard error.

Survey estimates are also subject to errors of reporting and errors made in the collection and processing of the data. These errors, called nonsampling errors, can sometimes bias the data. While general sampling theory can be used to estimate the sampling variability of an estimate, nonsampling errors are not easy to measure and usually require either an experiment to be conducted as part of the data collection procedure or use of data external to the study.

Nonsampling errors may include such things as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. The content of the survey was developed in consultation with representatives of private school associations attending

NCES meetings for users of private school data. The questionnaire and instructions were reviewed extensively by NCES staff. Manual and machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Data were keyed with 100-percent verification.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was used to complement the list frame through the identification of schools missing from the list frame. The area frame represents approximately 20 percent of the total number of private schools. The estimates in this report do not take into account newly opened private schools. As a result, the estimates of students, teachers, and graduates may be biased and lower than the actual numbers. The 1991–92 list and area frame updates to the PSS will be reflected in next year's early estimates, and so new schools will be included in those new estimates. As the Private School Early Estimates System and the Private School Survey (the universe data collection) system develop, both the list and area frames will be updated periodically.

Questions concerning the Private School Early Estimates System can be directed to:

Sharon A. Bobbitt
Elementary/Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208

Private School Early Estimates System: 1992–93. Early in September 1992, advance questionnaires were mailed to a national probability sample of 1,167 private elementary and secondary schools. Telephone collection of the data began in early October and was completed in mid-October. The telephone data collection used Computer Assisted Telephone Interviewing (CATI) technology to collect the data and perform preliminary edits. The overall response rate was 93.31 percent: 1,045 of the 1,120 eligible schools. Some 47 of the original 1,167 schools in the sample were determined to be out-of-scope. After adjusting for out-of-scope schools, the weighted estimate of private schools is 26,011.

The sampling frame used for the Private School Early Estimates Survey was the 1991-92 NCES Private School Survey (PSS). This survey collected information on the number of teachers and students in private schools, by school religious orientation and level as well as actual and projected counts of high school graduates. The PSS, and therefore the early estimates survey, uses two nonoverlapping frames: the list frame of approximately 24,000 eligible schools (the universe list), and an area frame developed by the Census Bureau, consisting of 355 schools identified in 124 sampled geographic areas (Primary Sampling Units or PSUs). The area frame is constructed from a sample survey designed to capture those schools not included in the universe list and is repeated every 2 years. The 355 schools identified in the sampled areas are weighted to a national estimate of the number of private schools not included in the universe list. This weighted number is then added to the universe count to



produce an estimate of the total number of private schools in the United States.

For the early estimates, the list frame was stratified by level of school (elementary, secondary, and combined) and religious orientation (Catholic, other religious, and nonsectarian). Within strata, schools were further sorted by Census region (Northeast, Midwest, South, and West), by urbanicity (urban, suburban, and rural) within region, and by student membership size within urbanicity. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership.

The area frame was stratified by level of school (elementary, secondary, and combined) and religious orientation (Catholic, other religious, and nonsectarian). Within strata, schools were further sorted by FIPS (Federal Information Processing Standards) state code, by PSU within state, and by student membership within PSU. Samples were selected with probabilities proportionate to size from each stratum. The measure of size used for this purpose was the square root of student membership multiplied by the inverse of the probability of selection of the PSU in which the school is located.

The estimation procedure is a two-step process. The first step is to produce estimates based on the NCES frame for private schools (1991–92 Private School Survey). These estimates are adjusted for total school nonresponse, as well as item nonresponse. The second step is to update the PSS based estimates, using the data collected in the 1992 Early Estimates Survey (EES). This EES update is a ratio estimate of the 1992 estimate from EES divided by the 1991 estimate based on the 1991 PSS data for the EES sample. The estimates in the tables are the PSS based estimates time the EES update. The early estimates in this report incorporate the relevant estimates from the PSS and update then using data collected in the EES.

The private school early estimates are based on a sample; these estimates may differ somewhat from figures that would have been obtained if a complete census of private schools had been taken using the same questionnaire and procedures. The standard error indicates the magnitude of the sampling error, the variability due to sampling when estimating a statistic. It indicates how much variance there is in the population of possible estimates of a parameter for a given sample size. Standard errors can be used as a measure of the precision expected from a particular sample. If all possible samples were surveyed under similar conditions, intervals of 1.96 standard errors below to 1.96 standard errors above a particular statistic would include the true population parameter being estimated in about 95 percent of the samples. This is a 95 percent confidence interval. For example, for the ratio of private school pupils to private school teachers in 1992-93, the estimate for all private schools is 14.9 and the standard error is 0.2. The 95 percent confidence interval for this statistic extends from 14.9 - (0.2 times 1.96) to 14.9 + (0.2 times 1.96) or from 14.5 to 15.3. The standard error for the 4,964,258 students in private schools is 116,612. The 95 percent confidence interval for this statistic extends from 4,735,698 <u>+</u>~ 5,192,818.

Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication (BRR)-a technique that splits the sample into several different halfsamples. Weight adjusted estimates are computed from the half-samples. Finally, the standard error of the halfsample estimates is used as an approximation for the fullsample standard error. The standard errors for private school early estimates for school years 1991-92 and 1992-93 are shown in the table below.

| Students (1992–93) | Teachers (1992–93) | Graduates (1991–92) |
|--------------------|-----------------------|------------------------|
| 116,612.2 | 8,714.8 | 6,071.4 |

Survey estimates are also subject to errors of reporting and errors made in the collection and processing of the data. These errors, called nonsampling errors, can sometimes bias the data. While general sampling theory can be used to estimate the sampling variability of an estimate, nonsampling errors are not easy to measure and usually require either an experiment conducted as part of the data collection procedure or use of data external to the study.

Nonsampling errors may include such things as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. The content of the survey was developed in consultation with representatives of private school associations attending NCES meetings for users of private school data. The questionnaire and instructions were reviewed extensively by NCES staff. The CATI instrument provided on-line internal consistency checks (i.e., totals equal sum of parts) as well as consistency checks with 1991 data for the sample school. Interviewers resolved discrepancies with the school during the course of the interview. Machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Data inputs into the CATI system were transferred directly to processing, avoiding potential keying errors.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was used to complement the list frame through the identification of schools missing from the list frame. The area frame represents approximately 10 percent of the total number of private schools. The 1991–92 list and area frame updates to the PSS were reflected in this year's early estimates, and so schools newly opened since 1989 are included in those new estimates.

Questions concerning the Private School Early Estimates System can be directed to:

Sharon A. Bobbitt Frank H. Johnson Mary A. Rochon Elementary/Secondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Integrated Postsecondary Education Data System

The Integrated Postsecondary Education Data System (IPEDS) surveys all postsecondary institutions, including universities and colleges, as well as institutions offering technical and vocational education beyond the high school level. This survey, which began in 1986, replaces and supplements the Higher Education General Information Survey (HEGIS).

The IPEDS consists of several integrated components that obtain information on who provides postsecondary education (institutions), who participates in it and completes it (students), what programs are offered and what programs are completed, and both the human and financial resources involved in the provision of institutionally based post-secondary education. Specifically, these components include: "Institutional Characteristics," including institutional activity; fall enrollment, including age and residence; fall enrollment in occupationally specific programs; completions; finance; staff; salaries of full-time instructional faculty; and academic libraries.

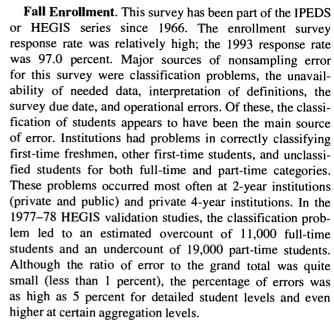
The higher education portion of this survey is a census of accredited 2- and 4-year colleges. Prior to 1993, data from the technical and vocational institutions are collected through a sample survey. Beginning in 1993, all data are gathered in a census of all postsecondary institutions. Thus, some portions of the data will be subject to sampling and nonsampling errors, while some portions will be subject only to nonsampling errors.

Prior to the establishment of IPEDS in 1986, HEGIS acquired and maintained statistical data on the characteristics and operations of institutions of higher education. Implemented in 1966, HEGIS was an annual universe survey of institutions listed in the latest NCES' Education Directory, Colleges and Universities.

The information presented in this report draws on IPEDS surveys that solicited information concerning institutional characteristics, enrollment, degrees, and finances. The higher education portion of this system is a census of accredited 2- and 4-year colleges. Since these surveys cover all institutions in the universe, the data are not subject to sampling error.

However, they are subject to nonsampling error, the sources of which vary with the survey instrument. Each survey will therefore be discussed separately. Information concerning the nonsampling error of the enrollment and degrees surveys is drawn extensively from the HEGIS Post-Survey Validation Study conducted in 1979.

Institutional Characteristics. This survey provided the basis for the universe of institutions presented in the Education Directory, Colleges and Universities. The universe comprised institutions that met certain accreditation criteria and offered at least a 1-year program of college-level studies leading toward a degree. All of these institutions were certified as eligible by the U.S. Department of Education's Division of Eligibility and Agency Evaluation. Each fall, institutions listed in the previous year's Directory were asked to update a computer printout of their information.



Beginning with fall 1986, the survey system was redesigned with the introduction of the Integrated Post-secondary Education (IPEDS) (see above). The new survey system comprises all postsecondary institutions, but also maintains comparability with earlier surveys by allowing HEGIS institutions to be tabulated separately. The new system also provides for preliminary and revised data releases. This allows the Center flexibility to release early data sets while still maintaining a more accurate final data base.

Completions. This survey was part of the HEGIS series throughout its existence. However, the degree classification taxonomy was revised in 1970–71, 1982–83, and 1991–92. Collection of degree data has been maintained through the IPEDS system.

Though information from survey years 1970–71 through 1981–82 is directly comparable, care must be taken if information before or after that period is included in any comparison. Degrees-conferred trend tables arranged by the 1991–92 classification were added to *Projections of Education Statistics* to provide consistent data from 1970–71 to 1991–92. Data in this edition on associate degrees cannot be made comparable with figures prior to 1982–83. The nonresponse rate did not appear to be a significant source of nonsampling error for this survey. The return rate over the years was high, with the response rate for the 1991–92 survey at 94.1 percent. Because of the high return rate, nonsampling error caused by imputation was also minimal.

The major sources of nonsampling error for this survey were differences between the NCES program taxonomy and taxonomies used by the colleges, classification of double majors and double degrees, operational problems, and survey timing. In the 1979 HEGIS validation study, these sources of nonsampling were found to contribute to an error rate of 0.3 percent overreporting of bachelor's degrees and 1.3 percent overreporting of master's degrees. The differences, however, varied greatly among fields. Over 50 percent of the fields selected for the validation study



had no errors identified. Categories of fields that had large differences were business and management, education, engineering, letters, and psychology. It was also shown that differences in proportion to the published figures were less than I percent for most of the selected fields that had some errors. Exceptions to these were: master's and Ph.D. programs in labor and industrial relations (20 percent and 8 percent); bachelor's and master's programs in art education (3 percent and 4 percent); bachelor's and Ph.D. programs in business and commerce, and in distributive education (5 percent and 9 percent); master's programs in philosophy (8 percent); and Ph.D. programs in psychology (11 percent).

Financial Statistics. This survey was part of the HEGIS series and has been continued under the IPEDS system. Changes were made in the financial survey instruments in fiscal years (FY) 1976, 1982, and 1987. The FY 76 survey instrument contained numerous revisions to earlier survey forms and made direct comparisons of line items very difficult. Beginning in FY 82, Pell Grant data were collected in Federal restricted grants and contracts revenues and restricted scholarships and fellowships expenditures. The introduction of the Integrated Postsecondary Education Data System (IPEDS) in the FY 87 survey included several important changes to the survey instrument and data processing procedures. While these changes were significant, considerable effort has been made to present only comparable information on trends in this report and to note inconsistencies. Finance tables for this publication have been adjusted by subtracting the largely duplicative Pell Grant amounts from the later data to maintain comparability with pre-FY 82 data.

Possible sources of nonsampling error in the financial statistics include nonresponse, imputation, misclassification. The response rate has been about 85 to 90 percent for most of the years reported. The response rate for the FY 1991 survey was 86.7 percent.

Two general methods of imputation were used in HEGIS. If the prior years' data were available for a nonresponding institution, these data were inflated using the Higher Education Price Index and adjusted according to changes in enrollments. If there were no data for the previous four vears, current data were used from Peer institutions selected for location (state or region), control, level, and enrollment size of institution. In most cases, estimates for nonreporting institutions in IPEDS were made using data from peer institutions.

Beginning with FY 87, the new system (IPEDS) comprises all postsecondary institutions, but also maintains comparability with earlier surveys by allowing 2- and 4year HEGIS institutions to be tabulated separately. The finance data tabulated for this publication reflect totals for the HEGIS or higher education institutions only.

To reduce reporting error, NCES used national standards for reporting finance statistics. These standards are contained in College and University Business Administration: Administrative Services (1974 Edition) and the Financial Accounting and Reporting Manual for Higher Education (1990 Edition) published by the National Association of College and University Business Officers; Audits of Colleges and Universities (as amended August 31, 1974), by the American Institute of Certified Public Accountants; and HEGIS Financial Reporting Guide (1980), by NCES. Wherever possible, definitions and formats in the survey are consistent with those in these four accounting texts.

Questions concerning the surveys used as data sources for this report or other questions concerning HEGIS can be directed to:

Postsecondary Education Statistics Division National Center for Education Statistics 555 New Jersey Avenue NW Washington, DC 20208

Bureau of the Census

Current Population Survey

Current estimates of school enrollment, as well as social and economic characteristics of students, are based on data collected in the Census Bureau's monthly survey of about 60,000 households. The monthly Current Population Survey (CPS) sample consists of 729 areas comprising 1,973 counties, independent cities, and minor civil divisions throughout the 50 states and the District of Columbia. The sample was initially selected from the 1980 census files and is periodically updated to reflect new housing construction.

The monthly CPS deals primarily with labor force data for the civilian noninstitutional population (i.e., excluding military personnel and their families living on post and inmates of institutions). In addition, on October of each year, supplemental questions are asked about highest grade completed, level of current enrollment, attendance status, number and types of courses, degree or certificate objective, and type of organization offering instruction for each member of the household.

The estimation procedure used for the monthly CPS data involves inflating weighted sample results to independestimates of characteristics of the civilian noninstitutional population in the United States by age, sex, and race. These independent estimates are based on statistics from decennial censuses that include statistics on births, deaths, immigration, and emigration and statistics on the population in the armed services. Generalized standard error tables are in the Current Population Reports. The data are subject to both nonsampling and sampling errors.

More information is available in the Current Population Reports, Series P-20, or by contacting:

Education and Social Stratification Branch Bureau of the Census U.S. Department of Commerce Washington, DC 20233

School Enrollment. Each October, the Current Population Survey (CPS) includes supplemental questions on



the enrollment status of the population 3 years old and over. The main sources of nonsampling variability in the responses to the supplement are those inherent in the survey instrument. The question concerning educational attainment may be sensitive for some respondents who may not want to acknowledge their lack of a high school diploma. The question of current enrollment may not be answered accurately for various reasons. Some respondents may not know current grade information for every student in the household, a problem especially prevalent for households with members in college or in nursery school. Confusion over college credits or hours taken by a student may make it difficult to determine the year in which the student is enrolled. Problems may occur with the definition of nursery school (a group or class organized to provide educational experiences for children) where respondents' interpretations of "educational experiences" vary.

Questions concerning the CPS "School Enrollment" survey may be directed to:

Education and Social Stratification Branch Bureau of the Census U.S. Department of Commerce Washington, DC 20233

State population projections. These state population projections were prepared using a cohort-component method by which each component of population change—births, deaths, state-to-state migration flows, international in-migration, and international out-migration—was projected separately for each birth cohort by sex, race, and Hispanic origin. The basic framework was the same as in past Census Bureau projections. However, in the absence of detailed components for some race and Hispanic origin groups, the necessary starting point components were derived by indirect standardization from the starting points used in the national projections.

The cohort-component method is based on the traditional demographic accounting system:

$$P_1 = P_0 + B - D + DIM - DOM + IIM - IOM$$

where:

 P_1 = population at the end of the period

 P_0 = population at the beginning of the period

B = births during the period

D = deaths during the period

DIM = domestic in-migration during the period

 $\mathbf{DOM} = \mathbf{domestic}$ out-migration during the period

IIM = international in-migration during the period

IOM = international out-migration during the period

To generate population projections with this model, we first created separate data sets for each of these components. In general, the assumptions concerning the future levels of fertility, mortality, and international migration are consistent with the assumptions developed for the national population projections released by the Census Bureau.

Once the data for each component were developed, it was a relatively straightforward process to apply the cohortcomponent method and produce the projections. For each projection year the base population for each state was disaggregated into the four racial categories (White; Black; American Indian, Eskimo, and Aleut; and Asian and Pacific Islander), by sex, and single year of age (ages 0 to 85+). The next step was to survive each age-sex-race group forward 1 year using the pertinent survival rate. The internal redistribution of the population was accomplished by applying the appropriate state-to-state migration rates to the survived population in each state. The projected outmigrants were subtracted from the state of origin and added to the state of destination (as in-migrants). Next, the appropriate number of immigrants from abroad were added to each group. The populations under age I were created by applying the appropriate age-race-specific birth rates to females of childbearing age. The number of births by sex and race were survived forward and exposed to the appropriate migration rate to yield the population under age 1. The final results of the projection process were adjusted to be consistent with the national population projections by single years of age, sex, and race. The entire process was then repeated for each year of the projection. This same process was repeated for the Hispanic Origin population separately.

Questions concerning the state population projections may be directed to:

Population Projections Branch Bureau of the Census U.S. Department of Commerce Washington, D.C. 20233

Other Sources

National Education Association

Estimates of School Statistics

The National Education Association (NEA) reports teacher, revenue, and expenditure data in its annual publication, *Estimates of School Statistics*. Each year, NEA prepares regression-based estimates of financial and other education statistics and submits them to the states for verification. Generally, about 30 states adjust these estimates based on their own data. These preliminary data are published by NEA along with revised data from pre-

vious years. States are asked to revise previously submitted data as final figures become available. The most recent publication contains all changes reported to the NEA.

Further information on the NEA survey can be obtained from:

National Education Association—Research 1201 16th Street NW Washington, DC 20036

DRI/McGraw-Hill

DRI/McGraw-Hill provides an information system that includes more than 125 databases: simulation and planning

models; regular publications and special studies; data retrieval and management systems; and access to experts on economic, financial, industrial, and market activities. One service is the DRI U.S. Annual Model Forecast Data Bank, which contains annual projections of the U.S. economic and financial conditions, including forecasts for the federal government, incomes, population, prices and wages, and state and local government, over a long-term (10 to 25-year) forecast period.

Additional information is available from:

DRI/McGraw-Hill 24 Hartwell Avenue Lexington, MA 02173



Appendix D

Glossary

Data Terms

Associate degree: A degree granted for the successful completion of a subbaccalaureate program of studies, usually requiring at least 2 years (or the equivalent) of fultime college-level study. This term includes degrees granted in a cooperative or work–study program.

Average daily attendance (ADA): The aggregate attendance of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered days in session.

Average daily membership (ADM): The aggregate membership of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The average daily membership for groups of schools having varying lengths of terms is the average of the average daily memberships obtained for the individual schools.

Bachelor's degree: A degree granted for the successful completion of a baccalaureate program of studies, usually requiring at least 4 years (or the equivalent) of full-time college-level study. This term includes degrees granted in a cooperative or work–study program.

Classroom teacher: A staff member assigned the professional activities of instructing pupils in self-contained classes or courses, or in classroom situations. Usually expressed in full-time equivalents.

Cohort: A group of individuals that have a statistical factor in common, for example, year of birth.

College: A postsecondary school that offers a general or liberal arts education, usually leading to an associate, bachelor's, master's, doctor's, or first-professional degree. Junior colleges and community colleges are included in this term.

Constant dollars: Dollar amounts that have been adjusted by means of price and cost indexes to eliminate inflationary factors and allow direct comparison across years.

Consumer Price Index (CPI): This price index measures the average change in the cost of a fixed market basket of goods and services purchased by consumers.

Current dollars: Dollar amounts that have not been adjusted to compensate for inflation.

Current expenditures (elementary/secondary): The expenditures for operating local public schools, excluding capital outlay and interest on school debt. These expenditures include such items as salaries for school personnel, fixed charges, student transportation, school books and materials, and energy costs.

Current expenditures per pupil in average daily attendance: Current expenditures for the regular school term divided by the average daily attendance of full-time pupils (or full-time-equivalency of pupils) during the term. See also current expenditures and average daily attendance.

Current-fund expenditures (higher education): Money spent to meet current operating costs, including salaries, wages, utilities, student services, public services, research libraries, scholarships and fellowships, auxiliary enterprises, hospitals, and independent operations. Excludes loans, capital expenditures, and investments.

Current Population Survey: See Appendix C, Data Sources.

Disposable income: Current income received by persons less their contributions for social insurance, personal tax, and nontax payments. It is the income available to persons for spending and saving. Nontax payments include passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated mainly by the government. See also *personal income*.

Doctor's degree: An earned degree carrying the title of doctor. The Doctor of Philosophy degree (Ph.D.) is the highest academic degree and requires mastery within a field of knowledge and demonstrated ability to perform scholarly research. Other doctorates are awarded for fulfilling specialized requirements in professional fields, such as education (Ed.D.), musical arts (D.M.A.), business administration (D.B.A.), and engineering (D.Eng. or D.E.S.). Many doctor's degrees in both academic and professional fields require an earned master's degree as a prerequisite. First-professional degrees, such as M.D. and D.D.S., are not included under this heading.



Educational and general expenditures: The sum of current funds expenditures on instruction, research, public service, academic support, student services, institutional support, operation and maintenance of plant, and awards from restricted and unrestricted funds.

Elementary school: A school classified as elementary by state and local practice and composed of any span of grades not above grade 8. A preschool or kindergarten school is included under this heading only if it is an integral part of an elementary school or a regularly established school system.

Elementary and secondary schools: As used in this publication, includes only regular schools, that is, schools that are part of state and local school systems and also most private elementary and secondary schools, both religiously affiliated and nonsectarian. Schools not included in this term are subcollegiate departments of institutions of higher education, American residential schools for exceptional children, federal schools for Indians, and federal schools on military posts and other federal installations.

Enrollment: The number of students registered in a given school unit at a given time, generally in the fall of a year.

Expenditures: Charges incurred, whether paid or unpaid, that are presumed to benefit the current fiscal year. For elementary and secondary schools, these include all charges for current outlays plus capital outlays and interest on school debt. For institutions of higher education, these include current outlays plus capital outlays. For government, these include charges net of recoveries and other correcting transactions other than for retirement of debt, investment in securities, or extension of credit. Government expenditures include only external transactions, such as the provision of perquisites or other payments in kind. Aggregates for groups of governments exclude intergovernmental transactions.

Expenditures per pupil: Charges incurred for a particular period of time divided by a student unit of measure, such as average daily attendance or average daily membership.

First-professional degree: A degree that signifies both completion of the academic requirements for beginning practice in a given profession and a level of professional skill beyond that normally required for a bachelor's degree. This degree usually is based on a program requiring at least 2 academic years of work before entrance and a total of at least 6 academic years of work to complete the degree program, including both prior required college work and the professional program itself. By NCES

definition, first-professional degrees are awarded in the fields of dentistry (D.D.S or D.M.D.), medicine (M.D.), optometry (O.D.), osteopathic medicine (D.O.), pharmacy (D.Phar.), podiatric medicine (D.P.M.), veterinary medicine (D.V.M.), chiropractic (D.C. or D.C.M.), law (LL.B. or J.D.), and theological professions (M.Div. or M.H.L.).

First-professional enrollment: The number of students enrolled in a professional school or program that requires at least 2 years of academic college work for entrance and a total of at least 6 years for a degree. By NCES definition, first-professional enrollment includes only students in certain programs. (See *first-professional degree* for a list of programs.)

Full-time enrollment: The number of students enrolled in higher education courses with total credit load equal to at least 75 percent of the normal full-time course load.

Full-time-equivalent (FTE) enrollment: For institutions of higher education, enrollment of full-time students, plus the full-time equivalent of part-time students as reported by institutions. In the absence of an equivalent reported by an institution, the FTE enrollment is estimated by adding one-third of part-time enrollment to full-time enrollment.

Full-time worker: In educational institutions, an employee whose position requires being on the job on school days throughout the school year at least the number of hours the schools are in session; for higher education, a member of an educational institution's staff who is employed full time.

Graduate: An individual who has received formal recognition for the successful completion of a prescribed program of studies.

Graduate enrollment: The number of students who hold the bachelor's or first-professional degree, or the equivalent, and who are working toward a master's or doctor's degree. First-professional students are counted separately. These enrollment data measure those students who are registered at a particular time during the fall. At some institutions, graduate enrollment also includes students who are in postbaccalaureate classes but not in degree programs.

High school: A secondary school offering the final years of high school work necessary for graduation, usually including grades 10, 11, and 12 (in a 6-3-3 plan), or grades 9, 10, 11, and 12 (in a 6-2-4 plan).

Higher education: Study beyond secondary school at an institution that offers programs terminating in an associate, baccalaureate, or higher degree.



Higher education institutions (traditional classifications):

4-year institution: An institution legally authorized to offer and offering at least a 4-year program of collegelevel studies wholly or principally creditable toward a bachelor's degree. A university is a postsecondary institution that typically includes one or more graduate professional schools.

2-year institution: An institution legally authorized to offer and offering at least a 2-year program of college-level studies that terminates in an associate degree or is principally creditable toward a baccalaureate.

Higher Education Price Index: A price index which measures average changes in the prices of goods and services purchased by colleges and universities through current-fund education and general expenditures (excluding expenditures for sponsored research and auxiliary enterprises).

Instructional staff: Full-time-equivalent number of positions, not the number of individuals occupying the positions during the school year. In local schools, it includes all public elementary and secondary (junior and senior high) day-school positions that are in the nature of teaching or the improvement of the teaching-learning situation. Includes consultants or supervisors of instruction, principals, teachers, guidance personnel, librarians, psychological personnel, and other instructional staff. Excludes administrative staff, attendance personnel, clerical personnel, and junior college staff.

Master's degree: A degree awarded for successful completion of a program generally requiring 1 or 2 years of full-time college-level study beyond the bachelor's degree. One type of master's degree, including the Master of Arts degree (M.A.) and the Master of Science degree (M.S.) is awarded in the liberal arts and sciences for advanced scholarship in a subject field or discipline and demonstrated ability to perform scholarly research. A second type of master's degree is awarded for the completion of a professionally oriented program, for example, an M.Ed. in education, an M.B.A. in business administration, an M.F.A. in fine arts, an M.M. in music, an M.S.W. in social work, or an M.P.A. in public administration. A third type of master's degree is awarded in professional fields for study beyond the first-professional degree, for example, the Master of Laws (LL.M.) and Master of Science in various medical specializations.

Part-time enrollment: The number of students enrolled in higher education courses with a total credit load of less than 75 percent of the normal full-time credit load.

Personal income: Current income received by persons from all sources minus their personal contributions for ital insurance. Classified as "persons" are individuals

(including owners of unincorporated firms), nonprofit institutions serving individuals, private trust funds, and private noninsured welfare funds. Personal income includes transfers (payments not resulting from current production) from government and business such as social security benefits, military pensions, and so forth, but excludes transfers among persons.

Postbaccalaureate enrollment: The number of graduate and first-professional students working toward advanced degrees and students enrolled in graduate-level classes but not enrolled in degree programs. See also *graduate* enrollment and first-professional enrollment.

Private institution: A school or institution that is controlled by an individual or agency other than a state, a subdivision of a state, or the federal government; that is usually supported primarily by other than public funds; and the operation of whose program rests with other than publicly elected or appointed officials.

Property tax: The sum of money collected from a tax levied against the value of property.

Public school or institution: A school or institution controlled and operated by publicly elected or appointed officials and deriving its primary support from public funds.

Pupil-teacher ratio: The enrollment of pupils at a given period of time, divided by the full-time-equivalent number of classroom teachers serving these pupils during the same period.

Revenues: All funds received from external sources, net of refunds and correcting transactions. Noncash transactions such as receipt of services, commodities, or other receipts "in kind" are excluded, as are funds received from the issuance of debt, liquidation of investments, or nonroutine sale of property.

Revenues receipts: Additions to assets that do not incur an obligation that must be met at some future date and do not represent exchanges of property for money. Assets must be available for expenditures.

Salary: The total amount regularly paid or stipulated to be paid to an individual, before deductions, for personal services rendered while on the payroll of a business or organization.

School: A division of the school system consisting of students in one or more grades or other identifiable groups and organized to give instruction of a defined type. One school may share a building with another school or one school may be housed in several buildings.

Secondary instructional level: The general level of instruction provided for pupils in secondary schools (generally covering grades 7 through 12 or 9 through 12)

and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance.

Secondary school: A school including any span of grades beginning with the next grade following an elementary or middle school (usually 7, 8, or 9) and ending with or below grade 12. Both junior high schools and senior high schools are included.

Senior high school: A secondary school offering the final years of high school work necessary for graduation.

Student: An individual for whom instruction is provided in an educational program under the jurisdiction of a school, school system, or other educational institution. No distinction is made between the terms "student" and "pupil," although "student" may refer to one receiving instruction at any level while "pupil" refers only to one attending school at the elementary or secondary level. The term "student" is used to include individuals at all instructional levels. A student may receive instruction in a school facility or in another location, such as at home or in a hospital. Instruction may be provided by direct student-teacher

interaction or by some other approved medium, such as television, radio, telephone, or correspondence.

Tax base: The collective value of objects, assets, and income components against which a tax is levied.

Total expenditure per pupil in average daily attendance: Includes all expenditures allocable to per pupil costs divided by average daily attendance. These allocable expenditures include current expenditures for regular school programs, interest on school debt, and capital outlay. Beginning in 1980-81, expenditures for administration by state governments are excluded and expenditures for other programs (summer schools, community colleges, and private schools) are included.

Unclassified students: Students who are not candidates for a degree or other formal award, although they are taking higher education courses for credit in regular classes with other students.

Undergraduate students: Students registered at an institution of higher education who are working in a program leading to a baccalaureate or other formal award below the baccalaureate, such as an associate degree.



Statistical Terms

Auto-Correlation: Correlation of the error terms from different observations of the same variable. Also called *serial correlation*.

Degrees of freedom: The number of free or linearly independent sample observations used in the calculation of a statistic.

Dependent variable: A mathematical variable whose value is determined by that of one or more other variables in a function. In regression analysis, when a random variable, y, is expressed as a function of variables $x_1, x_2,...$, plus a stochastic term, the y is known as the "dependent variable."

Double exponential smoothing: A method that takes a single smoothed average component of demand and smoothes it a second time to allow for estimation of a trend effect.

Durbin-Watson statistic: A statistic testing the independence of errors in least squares regression against the alternative of first-order serial correlation. The statistic is a simple linear transformation of the first-order serial correlation of residuals and, although its distribution is unknown, it is tested by bounding statistics that follow R. L. Anderson's distribution.

Econometrics: The quantitative examination of economic trends and relationships using statistical techniques, and the development, examination, and refinement of those techniques.

Estimate: A numerical value obtained from a statistical sample and assigned to a population parameter. The particular value yielded by an estimator in a given set of circumstances or the rule by which such particular values are calculated.

Estimating equation: An equation involving observed quantities and an unknown that serves to estimate the latter.

Estimation: Estimation is concerned with inference about the numerical value of unknown population values from incomplete data, such as a sample. If a single figure is calculated for each unknown parameter, the process is called point estimation. If an interval is calculated within which the parameter is likely, in some sense, to lie, the process is called interval estimation.

Exogenous variable: Variables for which the values are determined outside the model but which influence the model.

Exponential smoothing: A method used in time series smooth or to predict a series. There are various forms,

but all are based on the supposition that more remote history has less importance than more recent history.

Ex-Ante forecast: When forecasting a dependent variable for some time period t using a model with at least one independent variable, the forecast of the dependent variable is an ex-ante forecast if the values for the independent variables for time period t are themselves not known.

Ex-Post forecast: When forecasting a dependent variable for some time period t using a model with at least one independent variable, the forecast of the dependent variable is an ex-post forecast if the values for the independent variables for time period t are the actual values. Ex-post forecasts are often used in forecast evaluation.

First-Order serial correlation: When errors in one time period are correlated directly with errors in the ensuing time period. Also called *auto-correlation*.

Forecast: An estimate of the future based on rational study and analysis of available pertinent data, as opposed to subjective prediction.

Forecasting: Assessing the magnitude which a quantity will assume at some future point in time: as distinct from "estimation," which attempts to assess the magnitude of an already existent quantity.

Forecast horizon: The number of time periods into the future which are forecasted. Forecasts for next year are said to have a 1-year forecast horizon.

Function: A mathematical correspondence that assigns exactly one element of one set to each element of the same or another set. A variable that depends on and varies with another.

Functional form: A mathematical statement of the relationship among the variables in a model.

Independent variable: In regression analysis, when a random variable, y, is expressed as a function of variables $x_1, x_2,...$, plus a stochastic term, the x's are known as 'independent variables.'

Lag: An event occurring at time t + k (k > 0) is said to lag behind an event occurring at time t, the extent of the lag being k. An event occurring k time periods before another may be regarded as having a negative lag.

Maximum likelihood estimation: A method of estimating a parameter or parameters of a population by that value (or values) that maximizes (or maximize) the likelihood of a sample.

Mean absolute percentage error (MAPE): The average value of the absolute value of errors expressed in percentage terms.

Model: A system of postulates, data, and inferences presented as a mathematical description of a phenomenon such as an actual system or process. The actual phenomenon is represented by the model in order to explain it, to predict it, and to control it.

Ordinary least squares (OLS): The estimator that minimizes the sum of squared residuals.

Parameter: A quantity that describes a statistical population.

Projection: In relation to a time series, an estimate of future values based on a current trend.

R²: The coefficient of determination; the square of the correlation coefficient between the dependent variable and its OLS estimate.

 \bar{R}^2 (also called the adjusted R^2): The coefficient of determination adjusted for the degrees of freedom.

Regression analysis: A statistical technique for investigating and modeling the relationship between variables.

Rho: A measure of the correlation coefficient between errors in time period t and time period t minus 1.

Serial correlation: Correlation of the error terms from different observations. Also called *auto-correlation*.

Standard error of estimate: An expression for the standard deviation of the observed values about a regression line. An estimate of the variation likely to be encountered in making predictions from the regression equation.

Time series: A set of ordered observations on a quantitative characteristic of an individual or collective phenomenon taken at different points in time. Usually the observations are successive and equally spaced in time.

Time series analysis: The branch of quantitative forecasting in which data for one variable are examined for patterns of trend, seasonality, and cycle.

Variable: A quantity that may assume any one of a set of values.



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ERRATA

Several errors were found in Tables 45, 46, 47 and 48, of the *Projections of Education Statistics to 2006*. The enrollment figure for 1993 was incorrectly reported in Table 45 as 40,044,000. The correct enrollment figure is 43,476,000.

This errata sheet also corrects the projection figures for the states of Delaware and Idaho for the years 1995 though 2006. The discrepancy was a result of a data entry error on migration rates into and out of these states. Because a wrong migration factor was entered into the state projections model, future enrollment projections for Delaware and Idaho were inaccurate.

Attached are the corrected tables for inclusion in your copy of the *Projections* publication. We regret any inconvenience this may have caused.

October 1996

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Table 45.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1988 to fall 2006

(In thousands)

| | | | Actu | al | | | | Project | ed | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Region and state | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| United States | 40,189 | 40,543 | 41,217 | 42,047 | 42,816 | 43,476 | 44,230 | 45,076 | 45,885 | 46,524 |
| Northeast | 7,208 | 7,200 | 7,282 | 7,407 | 7,526 | 7,654 | 7,799 | 7,930 | 8,055 | 8,153 |
| Connecticut | 461 | 462 | 469 | 481 | 488 | 496 | 511 | 519 | 527 | 532 |
| Maine | 213 | 214 | 215 | 216 | 216 | 217 | 219 | 219 | 219 | 218 |
| Massachusetts | 823 | 826 | 834 | 846 | 860 | 878 | 899 | 915 | 930 | 943 |
| New Hampshire | 169 | 172 | 173 | 177 | 181 | 185 | 191 | 194 | 196 | 198 |
| | 1,081 | 1,076 | 1,090 | 1,110 | 1,131 | 1,151 | 1,173 | 1,199 | 1,229 | 1,255 |
| New Jersey | 2,574 | 2,566 | 2,598 | 2,644 | 2,690 | 2,734 | 2,771 | 2,817 | 2,862 | 2,896 |
| Pennsylvania | 1,660 | 1,655 | 1,668 | 1,693 | 1,718 | 1,744 | 1,781 | 1,809 | 1,832 | 1,849 |
| Rhode Island | 134 | 136 | 139 | 142 | 144 | . 146 | 150 | 152 | 154 | 156 |
| Vermont | 93 | 95 | 96 | 97 | 99 | 103 | 104 | 105 | 106 | 106 |
| Midwest | 9,846 | 9,849 | 9,944 | 10,080 | 10,198 | 10,298 | 10,425 | 10,562 | 10,666 | 10,742 |
| Illinois | 1,795 | 1,797 | 1,821 | 1,848 | 1,874 | 1,893 | 1,907 | 1,937 | 1,966 | 1,989 |
| Indiana | 961 | 954 | 955 | 957 | 961 | 966 | 970 | 980 | 990 | 999 |
| Iowa | 478 | 478 | 484 | 491 | 495 | 499 | 500 | 505 | 507 | 508 |
| Kansas | 427 | 431 | 437 | 445 | 452 | 458 | 470 | 477 | 481 | 484 |
| Michigan | 1,583 | 1,577 | 1,584 | 1,594 | 1,604 | 1,599 | 1,632 | 1,657 | 1,674 | 1,686 |
| Minnesota | 727 | 740 | 756 | 774 | 794 | 810 | 828 | 841 | 849 | 854 |
| Missouri | 807 | 808 | 817 | 843 | 859 | 876 | 882 | 891 | 898 | 902 |
| Nebraska | 269 | 271 | 274 | 280 | 282 | 285 | 288 | 291 | 294 | 295 |
| North Dakota | 119 | 118 | 118 | 118 | 119 | 119 | 119 | 118 | 118 | 117 |
| Ohio | 1,779 | 1,764 | 1,771 | 1,784 | 1,795 | 1,807 | 1,817 | 1,832 | 1,846 | 1,857 |
| South Dakota | 127 | 127 | 129 | 132 | 135 | 143 | 146 | 148 | 150 | 151 |
| Wisconsin | 775 | 783 | 798 | 815 | 829 | 844 | 867 | 884 | 895 | 901 |
| | 14,491 | 14,605 | 14,807 | 15,081 | 15,355 | 15,592 | 15,832 | 16,104 | 16,381 | 16,594 |
| South | 725 | 724 | 722 | 722 | 731 | 734 | 733 | 743 | 753 | 762 |
| Alabama | 436 | 435 | 436 | 439 | 441 | 444 | 447 | 451 | 454 | 456 |
| Arkansas | 97 | 98 | 100 | 102 | 104 | 106 | 108 | 111 | 113 | 115 |
| Delaware | 85 | 81 | 81 | 81 | 82 | 81 | 81 | 79 | 78 | 76 |
| District of Columbia | 1,721 | 1,790 | 1,862 | 1,932 | 1,981 | 2,041 | 2,109 | 2,173 | 2,235 | 2,279 |
| Florida | 1,108 | 1,127 | 1,152 | 1,178 | 1,207 | 1,235 | 1,267 | 1,296 | 1,324 | 1,346 |
| Georgia | 638 | 631 | 636 | 646 | 655 | 655 | 656 | 660 | 662 | 664 |
| Kentucky | 787 | 783 | 785 | 794 | 798 | 801 | 793 | 794 | 795 | 794 |
| Louisiana | 689 | 699 | 715 | . 736 | 752 | 773 | 792 | 816 | 838 | 857 |
| Maryland | 503 | 502 | 502 | 504 | 507 | 506 | 504 | 505 | 507 | 507 |
| Mississippi | 1,083 | 1,081 | 1,087 | 1,098 | 1,114 | 1,133 | 1,159 | 1,181 | 1,207 | 1,229 |
| North Carolina | 580 | 579 | 579 | 588 | 597 | 604 | 610 | 615 | 619 | 622 |
| Oklahoma | 616 | 616 | 622 | 627 | 640 | 644 | 647 | 658 | 668 | 676 |
| South Carolina | 822 | 820 | 825 | 834 | 854 | 867 | 880 | 892 | 905 | 916 |
| Tennessee | 3,284 | 3,329 | 3,383 | 3,464 | 3,542 | 3,608 | 3,663 | 3,725 | 3,792 | 3,839 |
| Texas | 982 | 985 | 999 | 1,016 | 1,032 | 1,045 | 1,071 | 1,097 | 1,122 | 1,140 |
| Virginia West Virginia | 336 | 328 | 322 | 320 | 318 | 314 | 312 | 310 | 309 | 308 |
| - | 8,644 | 8,889 | 9,184 | 9,479 | 9,736 | 9,932 | 10,174 | 10,480 | 10,782 | 11,036 |
| West | 106 | 109 | 114 | 119 | 122 | 126 | 129 | 133 | 137 | 140 |
| Alaska | 575 | 608 | 640 | 657 | 673 | 709 | 741 | 765 | 789 | 80 |
| Arizona | 4,618 | 4,772 | 4,950 | 5,107 | 5,249 | 5,329 | 5,440 | 5,626 | 5,815 | 5,97 |
| California | 560 | 563 | 574 | 593 | 613 | 625 | 641 | 655 | 670 | 68 |
| Colorado | | 169 | 172 | 175 | 177 | 180 | 193 | 200 | 205 | 20 |
| Hawaii | 167 | 215 | 221 | 226 | 232 | 237 | 240 | 244 | 248 | 25 |
| Idaho | 215 | | 153 | 156 | 160 | 163 | 166 | 167 | 168 | 16 |
| Montana | 152 | 151 | 201 | 212 | 223 | 236 | 250 | 260 | 270 | 27 |
| Nevada | 176 | 187 | | | 316 | 322 | 332 | 341 | 349 | 35 |
| New Mexico | 292 | 296 | 302 | 309 | | 517 | 526 | 538 | 549 | 55 |
| Oregon | 462 | 472 | 472 | 499 | 510 | | | 480 | 485 | 48 |
| Utah | 431 | 439 | 447 | 456 | 464 | 471 | 475 | 969 | 996 | 1,02 |
| Washington | 791 | 810 | 840 | 869 | 896 | 916 | 940 | | 102 | 1,02 |
| Wyoming | 98 | 97 | . 98 | 102 | 100 | 101 | 101 | 102 | 102 | |



Table 45.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1988 to fall 2006—Continued

(In thousands)

| Region and state | Projected | | | | | | | | |
|----------------------|------------|--------|--------|---------|--------|--------|--------|--------|--------|
| Region and state | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| United States | 46,988 | 47,365 | 47,656 | 47,891 | 48,102 | 48,234 | 48,365 | 48,497 | 48,528 |
| Northeast | 8,206 | 8,241 | 8,254 | 8,252 | 8,242 | 8,214 | 8,195 | 8,171 | 8,122 |
| Connecticut | 537 | 539 | 540 | 541 | 540 | 539 | 538 | 537 | 534 |
| Maine | 217 | 215 | 213 | 211 | 210 | 208 | 207 | 206 | 205 |
| Massachusetts | · 948 | 949 | 948 | 945 | 941 | 935 | 928 | 921 | 911 |
| New Hampshire | 198 | 198 | 197 | 196 | 194 | 193 | 193 | 192 | 191 |
| New Jersey | 1,274 | 1,291 | 1,305 | 1,317 | 1,326 | 1,332 | 1,337 | 1,339 | 1,337 |
| New York | 2,915 | 2,929 | 2,935 | 2,936 | 2,934 | 2,925 | 2,921 | 2,914 | 2,898 |
| Pennsylvania | 1,855 | 1,857 | 1,854 | 1,847 | 1,837 | 1,824 | 1,815 | 1,806 | 1,792 |
| Rhode Island | 156 | 156 | 156 | 155 | 154 | 154 | 153 | 152 | 151 |
| Vermont | 106 | 106 | 105 | 105 | 104 | 103 | 103 | 103 | 102 |
| Midwart | 10 776 | 10 707 | 10 002 | 10.700 | 10.701 | 10766 | 10.745 | 10 722 | 10.700 |
| Midwest | 10,776 | 10,797 | 10,803 | 10,799 | 10,791 | 10,766 | 10,745 | 10,733 | 10,700 |
| Illinois | 2,002 | 2,014 | 2,024 | 2,032 | 2,037 | 2,039 | 2,041 | 2,044 | 2,042 |
| Indiana | 1,006 | 1,013 | 1,019 | 1,025 | 1,032 | 1,037 | 1,037 | 1,038 | 1,036 |
| Iowa | 505 | 503 | 500 | 497 | 495 | 492 | 489 | 487 : | 485 |
| Kansas | 486 | 486 | 486 | 485 | 484 | 483 | 483 | 484 | 485 |
| Michigan | 1,699 | 1,709 | 1,716 | 1,720 | 1,724 | 1,724 | 1,725 | 1,726 | 1,723 |
| Minnesota | 855 | 853 | 849 | 843 | 837 | 829 | 824 | 821 | 816 |
| Missouri | 902 | 901 | 899 | 895 | 892 | 888 | 885 | 884 | 882 |
| Nebraska | 295 | 294 | 293 | 293 | 292 | 291 | 290 | 290 | 289 |
| North Dakota | 115 | 114 | 113 | 112 | 111 | 111 | 110 | 110 | 109 |
| Ohio | 1,859 | 1,861 | 1,861 | 1,861 | 1,861 | 1,857 | 1,850 | 1,844 | 1,834 |
| South Dakota | 150 | 150 | 148 | 147 | 146 | 144 | 144 | 144 | 144 |
| Wisconsin | 901 | 899 | 895 | 888 | 880 | 870 | 865 | 861 | 856 |
| South | 16,763 | 16,903 | 17,020 | 17,118 | 17,212 | 17,280 | 17,333 | 17 204 | 17 401 |
| Alabama | 774 | 785 | 797 | 809 | 820 | - | • | 17,384 | 17,401 |
| Arkansas | 458 | 459 | | | | 830 | 836 | 841 | 844 |
| | 438 117 | | 461 | 462 | 464 | 465 | 465 | 466 | 466 |
| Delaware | | 118 | 119 | 121 | 121 | 122 | 122 | 123 | 123 |
| District of Columbia | 74 | 73 | 72 | 71 | 71 | 72 | 72 | 72 | 72 |
| Florida | 2,309 | 2,329 | 2,338 | 2,341 | 2,339 | 2,332 | 2,335 | 2,336 | 2,333 |
| Georgia | 1,364 | 1,379 | 1,393 | 1,404 | 1,415 | 1,422 | 1,429 | 1,434 | 1,437 |
| Kentucky | 666 | 668 | 670 | 670 | 672 | 672 | 672 | 672 | 670 |
| Louisiana | 794 | 793 | 793 | 793 | 795 | 798 | 799 | 802 | 804 |
| Maryland | 874 | 888 | 899 | 908 | 916 | 921 | 926 | 929 | 931 |
| Mississippi | 505 | 504 | 503 | 504 | 504 | 505 | 505 | 506 | 506 |
| North Carolina | 1,249 | 1,267 | 1,282 | . 1,296 | 1,308 | 1,315 | 1,318 | 1,320 | 1,316 |
| Oklahoma | 621 | 619 | 616 | 614 | 613 | 612 | 613 | 614 | 615 |
| South Carolina | 682 | 689 | 695 | 701 | 707 | 712 | 714 | 716 | 716 |
| Tennessee | 924 | 931 | 936 | 941 | 945 | 948 | 948 | 948 | 945 |
| Texas | 3,881 | 3,916 | 3,946 | 3,972 | 3,999 | 4,022 | 4,047 | 4,070 | 4,090 |
| Virginia | 1,165 | 1,181 | 1,195 | 1,208 | 1,218 | 1,226 | 1,230 | 1,233 | 1,233 |
| West Virginia | 306 | 305 | 304 | 304 | 304 | 304 | 304 | 303 | 302 |
| West | 11,243 | 11,424 | 11 570 | 11.722 | | | | | |
| Alaska | 11,243 | 11,424 | 11,579 | , | 11,858 | 11,975 | 12,092 | 12,210 | 12,306 |
| Arizona | | | . 147. | 149 | 150 | 151 | 152 | 153 | 153 |
| | 820 | 828 | 833 | 835 | 834 | 831 | 835 | 839 | 840 |
| California | 6,113 | 6,235 | 6,344 | 6,448 | 6,550 | 6,643 | 6,725 | 6,809 | 6,879 |
| Colorado | 692 | 699 | 704 | 707 | 710 | 711 | 711 | 711 | 710 |
| Hawaii | 213 | 215 | 217 | 218 | 219 | 219 | 223 | 226 | 229 |
| Idaho | 254 | 257 | 260 | 262 | 265 | 268 | 270 | 272 | 273 |
| Montana | 169 | 168 | 168 | 168 | 167 | 167 | 167 | 168 | 168 |
| Nevada | 285 | 290 | 293 | 294 | 294 | 292 | 293 | 294 | 294 |
| New Mexico | 358 | 361 | 364 | 366 | 368 | 370 | 373 | 376 | 379 |
| Oregon | 566 | 574 | 580 | 586 | 592 | 597 | 602 | 607 | 610 |
| Utah | 490 | 493 | 497 | 502 | 508 | 514 | 520 | 527 | 532 |
| Washington | 1,039 | 1,057 | 1,071 | 1,085 | 1,097 | 1,108 | 1,115 | 1,123 | 1,129 |
| Wyoming | 101 | 102 | 102 | 102 | 103 | 104 | 105 | 107 | 108 |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys (This table was prepared September 1996.)



Table 46.—Percent change in grades K-12 enrollment in public schools, by region and state, with projections: Fall 1988 to fall 2006

| Design and state | Actual | Projected | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--|--|--|--|
| Region and state | 1988 to 1994 | 1994 to 2000 | 2000 to 2006 | 1994 to 2006 | | | | |
| nited States | 10.1 | 7.7 | 1.8 | | | | | |
| Northeast | 8.2 | 5.8 | -1.6 | 4 | | | | |
| Connecticut | 10.9 | 5.8 | -1.2 | | | | | |
| Maine | 2.7 | -2.4 | -3.9 | -(| | | | |
| Massachusetts | 9.2 | 5.4 | -3.9 | - | | | | |
| New Hampshire | 12.5 | 3.2 | -2.8 | • | | | | |
| | | 11.3 | | | | | | |
| New Jersey | 8.5 7.7 | 5.9 | 2.5 | 14 | | | | |
| New York | 7.7 | | -1.3 | | | | | |
| Pennsylvania | | 4.1 | -3.4 | | | | | |
| Rhode Island Vermont | 12.2 11.7 | 3.9 0.9 | -2.9 -2.8 | - | | | | |
| idwest | 5.9 | 3.6 | -1.0 | | | | | |
| Illinois | 6.3 | 6.1 | 0.9 | | | | | |
| Indiana | 0.9 | 5.1 | 1.7 | | | | | |
| lowa | 4.5 | 0.1 | -3.2 | | | | | |
| Kansas | 10.2 | 3.3 | -0.2 | | | | | |
| | 3.1 | 5.1 | 0.4 | | | | | |
| Michigan | 13.8 | 2.6 | -3.8 | | | | | |
| Minnesota | | | | | | | | |
| Missouri | 9.3 | 2.0 | -2.0 | | | | | |
| Nebraska | 6.8 | 2.0 | -1.6 | , | | | | |
| North Dakota | 0.2 . | -5.3 | -2.9 | | | | | |
| Ohio | 2.1 | 2.4 | -1.5 | | | | | |
| South Dakota | 14.8 | 1.9 | -3.2 | | | | | |
| Wisconsin | 11.9 | 3.1 | -4.4 | | | | | |
| uth | 9.3 | 7.5 | 2.2 | | | | | |
| Alabama | 1.2 | 8.6 | 5.9 | | | | | |
| Arkansas | 2.5 | 3.1 | 1.0 | | | | | |
| Delaware | 11.5 | 10.8 | 2.6 | | | | | |
| District of Columbia | -4.6 | -11.1 | -0.3 | | | | | |
| Florida | 22.6 | 10.9 | -0.2 | | | | | |
| Georgia | 14.3 | 10.0 | 3.1 | | | | | |
| Kentucky | 3.0 | 2.0 | 0.1 | | | | | |
| Louisiana | 0.8 | 0.0 | 1.4 | | | | | |
| | | 13.4 | 3.6 | | | | | |
| Maryland | 15.0 | | | | | | | |
| Mississippi | 0.2 | -0.2 | 0.4 | | | | | |
| North Carolina | 7.0 | 10.7 | 2.6 | | | | | |
| Oklahoma | 5.1 | 1.0 | -0.2 | | | | | |
| South Carolina | 5.1 | 7.3 | 3.1 | | | | | |
| Tennessee | 7.1 | 6.4 | 0.9 | | | | | |
| Texas | 11.5 | 7.7 | 3.7 | | | | | |
| Virginia | 9.0 | 11.6 | 3.1 | | | | | |
| West Virginia | -7.2 17.7 | -2.3 | -0.8 | | | | | |
| est | 17.7 | 13.8 | 6.3 | ; | | | | |
| Alaska | 21.0 | 14.2 | 4.1 | | | | | |
| Arizona | 29.0 | 12.3 | 0.9 | • | | | | |
| California | 17.8 | 16.6 | 8.4 | : | | | | |
| Colorado , | 14.5 | 9.8 | 0.9 | | | | | |
| Hawaii | 15.4 | 12.3 | 5.7 | | | | | |
| Idaho | 11.8 | 8.3 | 5.0 | | | | | |
| Montana | 8.9 | 1.4 | -0.1 | | | | | |
| Nevada | 41.4 | 17.3 | 0.5 | | | | | |
| New Mexico | 13.7 | 9.4 | 4.2 | | | | | |
| Oregon | 13.9 | 10.3 | 5.2 | | | | | |
| Utah | 10.1 | 4.7 | 7.1 | | | | | |
| Washington | 18.9 | 14.0 | 5.4 | : | | | | |
| Wyoming | 3.3 | 0.8 | 6.1 | • | | | | |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: US Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1996.)



Table 47.—Enrollment in grades K-8 in public schools, by region and state, with projections: Fall 1988 to fall 2006

(In thousands)

| Design and state | | | Actu | ıal | | | | Projec | ted | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Region and state | 1988 | 1989 | 1990 | 1991 | 1992. | 1993 | 1994 | 1995 | 1996 | 1997 |
| United States | 28,501 | 29,152 | 29,878 | 30,506 | 31,081 | 28,083 | 31,864 | 32,383 | 32,837 | 33,226 |
| Northeast | 4,989 | 5,077 | 5,189 | 5,293 | 5,387 | 5,486 | 5,585 | 5,675 | 5,751 | 5,813 |
| Connecticut | 332 | 338 | 347 | 355 | 362 | 369 | 378 | 384 | 389 | 393 |
| Maine | 149 | 152 | 155 | 157 | 156 | 157 | 157 | 157 | 156 | 154 |
| Massachusetts | 578 | 590 | 604 | 616 | 630 | 646 | 661 | 671 | 680 | 687 |
| New Hampshire | 120 | 124 | 126 | 130 | 133 | 136 | 140 | 141 | 141 | 141 |
| New Jersey | 755 | 766 | 784 | 801 | 818 | 844 | 858 | 880 | 902 | 923 |
| New York | 1,761 | 1,790 | 1,828 | 1,862 | 1,893 | 1,921 | 1,953 | 1,987 | 2,018 | 2,041 |
| Pennsylvania | 1,133 | 1,148 | 1,172 | 1,195 | 1,216 | 1,233 | 1,254 | 1,269 | 1,280 | 1,287 |
| Rhode Island | 95 | 98 | 102 | 104 | 106 | 107 | 109 | 111 | 111 | 112 |
| Vermont | 67 | 69 | 71 | 73 | 74 | 75 | 75 | 76 | 75 | 75 |
| Midwest | 6,894 | 6,997 | 7,130 | 7,245 | 7,312 | 7,357 | 7,377 | 7,445 | 7,486 | 7,526 |
| Illinois | 1,259 | 1,280 | 1,310 | 1,328 | 1,345 | 1,356 | 1,357 | 1,381 | 1,404 | 1,424 |
| Indiana | 668 | 671 | 676 | 676 | 677 | 679 | 675 | 681 | 686 | 693 |
| Iowa | 334 | 338 | 345 | 348 | 349 | 348 | 345 | 346 | 344 | 343 |
| Kansas | 307 | 314 | 320 | 325 | 328 | 330 | 334 | 336 | 335 | 334 |
| Michigan | 1,114 | 1,128 | 1,145 | 1,159 | 1,165 | 1,160 | 1,179 | 1,195 | 1,204 | 1,212 |
| Minnesota | 511 | 529 | 546 | 557 | 569 | 577 | 583 | 586 | 585 | 584 |
| Missouri | 568 | 576 | 588 | 612 | 622 | 632 | 629 | 633 | 636 | 636 |
| Nebraska | 191 | 194 | 198 | 201 | 202 | 203 | 203 | 203 | 203 | 203 |
| North Dakota | 85 | 85 | 85 | 85 | 85 | 84 | 83 | 82 | 80 | 79 |
| Ohio | 1,229 | 1,239 | 1,258 | 1,277 | 1,284 | 1,290 | 1,283 | 1,289 | 1,294 | 1,302 |
| South Dakota | 93 | 94 | 95 | 96 | 98 | 102 | 103 | 103 | 103 | 103 |
| Wisconsin | 535 | 549 | 566 | 580 | 588 | 596 | 603 | 610 | 612 | 612 |
| South | 10,413 | 10,617 | 10,859 | 11,068 | 11,285 | 11,441 | 11,537 | 11,704 | 11,864 | 11,997 |
| Alabama | 522 | 526 | 527 | 526 | 534 | 536 | 530 | 537 | 545 | 554 |
| Arkansas | 309 | 311 | 314 | 315 | 318 | 318 | 317 | 319 | 320 | 322 |
| Delaware | 69 | 71 | 73 | 75 | 76 | 77 | 78 | 79 | 81 | 82 |
| District of Columbia | 62 | 61 | 61 | 61 | 61 | 61 | 62 | 59 | 58 | 56 |
| Florida | 1,232 | 1,303 | 1,370 | 1,428 | 1,470 | 1,515 | 1,564 | 1,605 | 1,638 | 1,659 |
| Georgia | 808 | 828 | 849 | 868 | 892 | 910 | 927 | 945 | 963 | 978 |
| Kentucky | 452 | 452 | 459 | 466 | 470 | 467 | 464 | 466 | 468 | 470 |
| Louisiana | 581 | 582 | 586 | 591 | 591 | 587 | 576 | 576 | 574 | 573 |
| Maryland | 489 | 507 | 527 | 543 | 556 | 569 | 581 | 598 | 612 | 624 |
| Mississippi | 368 | 370 | 372 | 370 | 370 | 369 | 364 | 362 | 362 | 362 |
| North Carolina | 761 | 770 | 783 | 795 | 811 | 828 | 843 | 861 | 879 | 896 |
| Oklahoma | 414 | 421 | 425 | 432 | 439 | 441 | 441 | 442 | 441 | 440 |
| South Carolina | 438 | 444 | 452 | 456 | 467 | 467 | 466 | 473 | 480 | 487 |
| Tennessee | 586 | 590 | 598 | 605 | 621 | 630 | 634 | 642 | 651 | 659 |
| Texas | 2,392 | 2,443 | 2,511 | 2,575 | 2,634 | 2,681 | 2,699 | 2,729 | 2,764 | 2,791 |
| Virginia | 699 | 712 | 728 | 741 | 758 | 767 | , 781 | 800 | 817 | 833 |
| West Virginia | 232 | 227 | 224 | 222 | 219 | 216 | 212 | 212 | 211 | 211 |
| West | 6,207 | 6,461 | 6,700 | 6,900 | 7,096 | 7,231 | 7,365 | 7,558 | 7,736 | 7,890 |
| Alaska | 79 | 82 | 85 | · 89 | 92 | 94 | 95 | 98 | 100 | 102 |
| Arizona | 418 | 451 | 479 | 490 | 498 | 526 | 545 | 559 | 573 | 584 |
| California | 3,317 | 3,470 | 3,615 | 3,720 | 3,845 | 3,904 | 3,975 | 4,104 | 4,230 | 4,335 |
| Colorado | 400 | 408 | 420 | 436 | 451 | 460 | 469 | 475 | 481 | 486 |
| Hawaii | 120 | 123 | 123 | 127 | 129 | 132 | 139 | 143 | 146 | 148 |
| Idaho | 156 | 157 | 160 | 161 | 165 | 167 | 167 | 169 | 171 | 173 |
| Montana | 110 | 110 | 111 | 113 | 115 | 117 | 117 | 117 | 116 | 116 |
| Nevada | 127 | 137 | 150 | 158 | 165 | 175 | 184 | 190 | 196 | 200 |
| New Mexico | 200 | 203 | 208 | 213 | 217 | 226 | 230 | 233 | 236 | 240 |
| Oregon | 328 | 340 | 340 | 359 | 365 | 368 | 373 | 381 | 386 | 391 |
| Utah | 319 | 324 | 325 | 327 | 330 | 330 | 328 | 330 | 330 | 332 |
| Washington | 563 | 586 | 613 | 633 | 652 | 660 | 672 | 688 | 702 | 715 |
| Wyoming | 70 | 70 | 71 | 74 | 72 | 71 | 70 | 70 | 70 | 69 |



Table 47.—Enrollment in grades K-8 in public schools, by region and state, with projections: Fall 1988 to fall 2006—Continued

(In thousands)

| | | | | P | rojected | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|------------|------------|--------|--------|--------|
| Region and state | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| United States | 33,522 | 33,692 | 33,852 | 34,029 | 34,098 | 34,065 | 33,882 | 33,680 | 33,507 |
| Northeast | 5,838 | 5,836 | 5,823 | 5,807 | 5,768 | 5,711 | 5,635 | 5,556 | 5,478 |
| Connecticut | 395 | 395 | 394 | 393 | 390 | 387 | 382 | 378 | 374 |
| Maine | 152 | 150 | 147 | 146 | 144 | 143 | 141 | 140 | 139 |
| Massachusetts | 685 | 680 | 675 | 668 | 659 | 648 | 635 | 622 | 609 |
| New Hampshire | 140 | 138 | 137 | 135 | - 133 | 132 | 130 | 129 | 127 |
| New Jersey | 938 | 948 | 956 | 962 | 962 | 959 | 951 | 940 | 929 |
| New York | 2,053 | 2,055 | 2,054 | 2,052 | 2,040 | 2,021 | 1,994 | 1,965 | 1,937 |
| Pennsylvania | 1,289 | 1,284 | 1,277 | 1,269 | 1,259 | 1,244 | 1,226 | 1,209 | 1,191 |
| Rhode Island | 112 | 111 | 110 | 109 | 108 | 106 | 105 | 103 | 101 |
| Vermont | 74 | 74 | 73 | 73 | 73 | 72 | 71 | 71 | 71 |
| Midwest | 7,547 | 7,540 | 7,535 | 7,540 | 7,528 | 7,492 | 7,429 | 7,368 | 7,306 |
| Illinois | 1,434 | 1,439 | 1,443 | 1,449 | 1,450 | 1,446 | 1,435 | 1,421 | 1,408 |
| Indiana | 701 | 707 | 713 | 719 | 723 | 724 | 719 | 714 | 707 |
| Iowa | 342 | 340 | 338 | 338 | 336 | 334 | 330 | 328 | 325 |
| Kansas | 335 | 334 | 334 | 335 | 335 | 335 | 334 | 334 | 334 |
| Michigan | 1,223 | 1,226 | 1,230 | 1,234 | 1,235 | 1,232 | 1,222 | 1,214 | 1,207 |
| Minnesota | 581 | 576 | 570 | 566 | 562 | 556 | 550 | 546 | 542 |
| Missouri | 634 | 630 | 626 | 623 | 620 | 616 | 611 | 606 | 602 |
| Nebraska | 202 | 201 | 201 | 201 | 200 | 200 | 198 | 197 | 196 |
| North Dakota | 77 | 76 | 75 | 74 | 74 | 74 | 73 | 73 | 73 |
| Ohio | 1,306 | 1,304 | 1,303 | 1,304 | 1,300 | 1,293 | 1,279 | 1,264 | 1,249 |
| South Dakota | 103 | 102 | 102 | 101 | 101 | 100 | 100 | 99 | 98 |
| Wisconsin | 610 | 605 | 599 | 595 | 590 | 584 | 578 | 573 | 567 |
| | 12,112 | 12,184 | 12,258 | 12,341 | 12,383 | 12,391 | 12,336 | 12,270 | 12,218 |
| South | 566 | 577 | 587 | 597 | 605 | 611 | 611 | 610 | 609 |
| Alabama | 323 | 324 | 326 | 327 | 329 | 329 | 327 | 324 | 322 |
| Arkansas | 83 | 84 | 85 | 86 | 86 | 86 | 85 | 84 | 84 |
| Delaware | 54 | 52 | 51 | 50 | 50 | 49 | 49 | 48 | 48 |
| District of Columbia | 1,670 | 1,674 | 1,676 | 1,677 | 1,670 | 1,659 | 1,645 | 1,630 | 1,619 |
| Georgia | 993 | 1,004 | 1,014 | 1,022 | 1,026 | 1,027 | 1,022 | 1,017 | 1,013 |
| Kentucky | 474 | 473 | 475 | 479 | 480 | 480 | 477 | 474 | 47 |
| Louisiana | 572 | 570 | 569 | 572 | 575 | 577 | 576 | 575 | 57: |
| | 635 | 644 | 651 | 657 | 660 | 660 | 657 | 652 | 64 |
| Maryland | 363 | 363 | 363 | 366 | 367 | 368 | 365 | 363 | 36 |
| Mississippi North Carolina | 911 | 920 | 928 | 935 | 937 | 935 | 926 | 916 | 90 |
| Oklahoma | 437 | 434 | 432 | 432 | 432 | 431 | 429 | 427 | 42 |
| | 493 | 498 | 502 | 507 | 510 | 511 | 507 | 503 | 50 |
| South Carolina Tennessee | 665 | 668 | 670 | 673 | 674 | 671 | 665 | 659 | 65 |
| Texas | 2,818 | 2,836 | 2,857 | 2,881 | 2,899 | 2,915 | 2,920 | 2,920 | 2,92 |
| Virginia | 844 | 852 | 859 | 866 | 869 | 869 | 863 | 856 | 85 |
| West Virginia | 212 | 213 | 213 | 214 | 215 | 214 | 213 | 211 | 20 |
| West | 8,025 | 8,132 | 8,236 | 8,340 | 8,419 | 8,470 | 8,483 | 8,486 | 8,50 |
| | 104 | 105 | 106 | 107 | 108 | 108 | 108 | 108 | 10 |
| Alaska | 592 | 596 | 598 | 600 | 600 | 597 | 594 | 590 | 58 |
| Arizona | 4,426 | 4,499 | 4,569 | 4,639 | 4,692 | 4,732 | 4,745 | 4,749 | 4,76 |
| California | 489 | 491 | 493 | 494 | 495 | 494 | 492 | 489 | 48 |
| Colorado Hawaii | 150 | 152 | 155 | 157 | 158 | 160 | 161 | 162 | 16 |
| | 175 | 178 | 181 | 184 | 186 | 188 | 188 | 189 | 18 |
| Idaho | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 11 |
| Montana | | | 206 | 206 | 206 | 204 | 203 | 202 | 20 |
| Nevada | 203 | 205 | | 252 | 255 | 257 | 257 | 257 | 25 |
| New Mexico | 243 | 246 | 249 | | | 415 | 415 | 416 | 41 |
| Oregon | 396 | 400 | 404 | 409 | 412 | | 363 | 367 | 37 |
| Utah | 336 | 340 | 345 | 351 | 356 762 | 360 766 | 766 | 766 | 76 |
| Washington | 726 69 | 736 69 | 745 69 | 755 70 | 762 71 | 766 72 | 73 | 74 | 70 |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data Surveys. (This table was prepared September 1996.)



Table 48.—Percent change in grades K-8 enrollment in public schools, by region and state, with projections: Fall 1988 to fall 2006

| | Actual | | | |
|----------------------|--------------|--------------|--------------|--------------|
| Region and state — | 1988 to 1994 | 1994 to 2000 | 2000 to 2006 | 1994 to 2006 |
| United States | 11.8 | 6.2 | -1.0 | 5.2 |
| Northeast | 12.0 | 4.3 | -5.9 | -1.9 |
| Connecticut | 14.0 | 4.2 | -5.2 | -1.2 |
| Maine | 5.7 | -6.3 | -5.9 | -11.9 |
| Massachusetts | 14.4 | 2.1 | -9.8 | -7.9 |
| New Hampshire | 16.5 | -2.2 | -6.7 | -8.7 |
| New Jersey | 13.6 | 11.5 | -2.8 | 8.3 |
| New York | 10.9 | 5.2 | -5.7 | -0.8 |
| Pennsylvania | 10.7 | 1.8 | -6.7 | -5.0 |
| Rhode Island | 14.9 | 0.3 | -7.6 | -7.3 |
| Vermont | 12.7 | -2.3 | -3.8 | -6.1 |
| Midwest | 7.0 | 2.1 | -3.0 | -1.0 |
| Illinois | 7.8 | 6.3 | -2.5 | 3.7 |
| Indiana | 1.1 | 5.6 | -0.7 | 4.8 |
| Iowa | 3.2 | -1.9 | -4.0 | -5.8 |
| Kansas | 9.0 | 0.0 | -0.2 | -0.2 |
| Michigan | 5.9 | 4.4 | -1.9 | 3 2.4 |
| Minnesota | 14.0 | -2.2 | -5.0 | -7.0 |
| Missouri | 10.7 | -0.5 | -3.8 | -4.3 |
| Nebraska | 6.0 | -1.0 | -2.6 | -3.5 |
| North Dakota | -2.4 | -9.9 | -3.0 | -12.6 |
| Ohio | 4.4 | 1.5 | -4.2 | -2.3 |
| South Dakota | 10.8 | -0.8 | -3.2 | -4.(|
| Wisconsin | 12.7 | -0.6 | -5.4 | -6.0 |
| | 10.8 | 6.3 | -0.3 | 5.9 |
| South | 1.5 | 10.9 | 3.8 | 15.0 |
| AlabamaArkansas | 2.6 | 2.6 | -1.0 | 1.0 |
| Delaware | 12.6 | 9.2 | -1.3 | 7.8 |
| District of Columbia | -0.9 | -17.5 | -5.4 | -22.0 |
| Florida | 26.9 | 7.2 | -3.4 | 3.0 |
| Georgia | 14.7 | 9.4 | -0.1 | 9. |
| Kentucky | 2.6 | 2.6 | -1.0 | 1. |
| Louisiana | -0.8 | -1.2 | 1.0 | -0. |
| | 18.8 | 11.9 | -0.3 | 11.0 |
| Maryland | -1.1 | 0.0 | -0.9 | -1.0 |
| Mississippi | 10.8 | 10.1 | -0.5 -2.3 | 7.0 |
| North Carolina | 6.7 | -2.1 | -1.4 | -3.: |
| Oklahoma | 6.4 | 7.8 | -0.4 | 7. |
| South Carolina | | 5.7 | -0.4 | 2. |
| Tennessee | 8.2 | 5.7 5.9 | 2.4 | 2. 8. |
| Texas | 12.8 | | -1.1 | 8. |
| Virginia | 11.7 -8.5 | 10.1 0.5 | -1.1 -2.3 | -1.1 |
| West Virginia | | | | |
| West | 18.7 | 11.8 | : 3.3 | 15.: |
| Alaska | 20.9 | 11.5 | 1.8 | 13. |
| Arizona | 30.6 | 9.7 | -1.9 | 7. |
| California | 19.8 | 14.9 | 4.4 | 20. |
| Colorado | 17.2 | 5.1 | -1.4 | 3. |
| Hawaii | 15.4 | 11.2 | 6.3 | 18.1 |
| Idaho | 7.5 | 8.1 | 4.6 | 13. |
| Montana | 7.2 | -1.6 | 0.4 | -1. |
| Nevada | 44.5 | 11.8 | -1.9 | 9. |
| New Mexico | 14.7 | 8.5 | 3.1 | 11. |
| Oregon | 13.7 | 8.2 | 3.4 | 11.5 |
| Utah | 2.8 | 5.2 | 7.2 | 12. |
| Washington | 19.3 | 11.0 | 2.8 | 14. |
| Wyoming | -0.1 | -1.4 | 7.5 | 6. |

NOTE: Includes most kindergarten and some nursery school enrollment.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys. (This table was prepared September 1996.)



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